

STUDY OF MUTAGENIC EFFECTS OF LOCUST BEAN GUM
(71-14)

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#7

Study of mutagenic effects of **Locust Bean Gum** #7 (71-14) 5/72

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Compound Report No. 7

STUDY OF MUTAGENIC EFFECTS OF LOCUST BEAN GUM (71-14)

Prepared for:

DHEW/PUBLIC HEALTH SERVICE
Food and Drug Administration
Rockville, Maryland

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Submitted by:

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Approved:



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INTRODUCTION

Under contract to the Food and Drug Administration, Stanford Research Institute is examining the mutagenicity of 14 selected chemical compounds (Contract No. FDA 71-267). This report describes the results of tests conducted on Locust Bean Gum (71-14).

Three methods are used to evaluate the genetic hazards of the test compounds. These are: (1) Host-Mediated Assay, (2) Cytogenetic Assay, and (3) Dominant Lethal Gene Test. Methodologies used to conduct these tests are described in detail in "Compound Report No. 1," January 1972. The same procedures were followed in obtaining the information presented in this report.

For the compound under consideration here single and repeated intubations were performed at three concentrations. These amounts were (1) a maximum tolerated dose or 5 g/kg, whichever was lower, (2) a low dose of 30 mg/kg or one near the use level, and (3) a level intermediate between the use level and the maximum tolerated dose.

SUMMARY

Host-Mediated Assay

Locust Bean Gum (71-14) did not produce any measureable mutagenic response or alteration in the recombination frequency for Saccharomyces cerevisiae in either the host-mediated assay or the associated in vitro tests.

Cytogenetic Assay

Locust Bean Gum (Compound 71-14) exhibits no adverse effect on either metaphase chromosomes from rat bone marrow or anaphase chromosomes from in vitro cultures of WI-38 (human embryonic lung) cells at any of the dose levels or time periods tested.

Dominant Lethal Gene Test

No consistent responses occurred to suggest that Locust Bean Gum (71 - 14) is mutagenic to the rat as a result of this experimental procedure. The positive reference compound, TEM, and a known mutagen generally produced mutagenic responses from the second through the fifth weeks of the experiment, as expected.

RESULTS AND DISCUSSION

Oral Toxicity

Single and multiple dose toxicity data are presented in Table 1. Locust Bean Gum (71-14) given orally as a suspension in corn oil at a dose of 10 g/kg of body weight caused no deaths. No effects, except transient depression of the rats for a few hours following dosing, were evident. When given daily at a dose of 5 g/kg for five days to other male rats, no unusual or adverse effects were observed.

Host-Mediated Assay

Table 2 presents a summary of the host-mediated assay results for Locust Bean Gum (71-14). Table 3 contains the data obtained on each individual mouse. This table is a computer printout of the calculations made on the data obtained for each mouse. Because of the nature of the computer, it is necessary to exceed its maximum number of significant figures to obtain a value as an exponent. For this reason, 12 significant figures are printed out. However, only three significant figures are used for calculations and reporting the results as summarized in Table 2. Table 4 summarizes the data obtained in the in vitro tests.

As can be seen from the results summarized in Table 2, no mutagenic response was observed for the two Salmonella typhimurium strains tested when mice were treated with the test compound. The mitotic recombination frequency of Saccharomyces cerevisiae was not affected. Similarly, no positive mutagenic response was detected in the in vitro tests.

Cytogenetic Assay

Review of Table 5 indicates that no adverse effect on rat bone marrow chromosomes at any tested dose level or time period may be attributed to Compound 71-14 (locust bean gum). The very low value for the positive control may be attributed to the fact that the dose was reduced from 0.5 mg/kg administered in previous tests to 0.4 mg/kg in an effort to increase the number of cells available for scoring. Furthermore, TEM treatment, for 6 hours only, results in highly variable percentages of aberrant cells. Tests have been conducted in our laboratory which indicate that TEM incubation in the rat for 24 hours produces a noticeable increase in the number and types of aberrations observed. The percentage of aberrant cells becomes markedly elevated over any of the test dose levels if gaps are scored rather than breaks in the present case (Table 6), further supporting the ineffectiveness of locust bean gum in producing cytogenetic abnormalities.

Table 7 indicates that locust bean gum likewise exhibits no adverse effect on anaphase cells obtained from WI-38 cells in culture. The positive control cells were exposed to the TEM for 24 hours rather than 42 hours as were the cells being exposed to the test compound. Cells exposed to TEM for periods longer than 24 hours have a very low percentage of anaphase figures.

Dominant Lethal Gene Test

Throughout this entire experiment, the biological criteria used to evaluate mutagenic effects in the rat showed no consistent responses which could be attributed to treatment. There were occasional statistical differences between control and gum-dosed groups, but these were random occurrences without any suggestion of a time or dose-response effect. For example, in Table 8, summary data of the average implantations per pregnant female, the number of implants for the low (30 mg/kg) dose groups in the singly-treated locust bean gum rats during the sixth week and the low dose (30 mg/kg) at the seventh week and the intermediate dose (2.5 g/kg) at both the sixth and seventh weeks in the multiple-treated locust bean gum rats were significantly less than that of the controls, but comparable to the controls throughout the remainder of the experiment.

Similar types of scattered responses were obtained in statistical treatment of: dead implants per pregnant female (see Table 9), dead implants per total implants (see Table 10), corpora lutea per pregnant female (see Table 11), and pre-implantation loss per pregnant females (see Table 12).

Careful review and statistical evaluation of the data do not show locust bean gum to be a mutagen in the rat by the dominant lethal gene test.

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ORAL TOXICITY - RAT

Table 1

Compound: Locust Bean Gum
FDA No: 71-14

Single Dose LD₅₀^a > 10 g/kg

Multiple Dose Toxicity^b > 5 g/kg

- ^a Five male, Sprague-Dawley rats, weighing 200-250 g each, were fasted overnight and then given oral doses of the candidate, prepared as a suspension in corn oil.
- ^b Five nonfasted Sprague-Dawley male rats were intubated daily for five days with specified amounts of the candidate compound, given as a partial suspension in corn oil.

Table 2
HOST-MEDIATED ASSAY
SUMMARY OF DATA

Compound No.: 71-14 (Locust Bean Gum)

A. Acute

Treatment	Organism					
	Salmonella		Saccharomyces			
	G <small>10</small>	MFt/ MFc	TA 1530	MFt/ MFc	D-3	RFt/ RFC
MF		MF	MF	MFt/ MFc	RF	RFt/ RFC
Maximum	1.39 X 10 ⁻⁸	1.90	1.96 X 10 ⁻⁸	1.37	1.26 X 10 ⁻⁴	1.07
Intermediate	8.19 X 10 ⁻⁹	1.12	1.38 X 10 ⁻⁸	0.97	8.80 X 10 ⁻⁵	0.75
Low Level	1.39 X 10 ⁻⁸	1.90	2.79 X 10 ⁻⁸	1.95	1.39 X 10 ⁻⁴	1.18
Control (+)	5.07 X 10 ⁻⁷ ✓	69.36	6.40 X 10 ⁻⁷ ✓	44.76	7.93 X 10 ⁻⁴ ✓	6.72
Control (-)	7.31 X 10 ⁻⁹ ✓	1.00	1.43 X 10 ⁻⁸ ✓	1.00	1.18 X 10 ⁻⁴ ✓	1.00

B. Subacute

Treatment	Organism					
	Salmonella		Saccharomyces			
	G <small>10</small>	MFt/ MFc	TA 1530	MFt/ MFc	D-3	RFt/ RFC
MF		MF	MF	MFt/ MFc	RF	RFt/ RFC
Maximum	7.02 X 10 ⁻⁹	0.72	2.39 X 10 ⁻⁸	0.42	1.10 X 10 ⁻⁴	0.93
Intermediate	1.51 X 10 ⁻⁸	1.52	1.82 X 10 ⁻⁸	0.34	8.01 X 10 ⁻⁵	0.68
Low Level	3.47 X 10 ⁻⁹	0.35	1.41 X 10 ⁻⁸	0.26	7.14 X 10 ⁻⁵	0.61
Control (-)	9.81 X 10 ⁻⁹	1.00	5.40 X 10 ⁻⁸ ✓	1.00	1.18 X 10 ⁻⁴ ✓	1.00

Table 3

HOST MEDIATED ASSAY
INDIVIDUAL MOUSE DATA

Compound No.: 71-14 (Locust Bean Gum)

Organism: G-46

Treatment: (+) CONTROL

A. Acute

Mouse No.	Ave. No. Mutant	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
	Colonies or Recombinants/ml		
1	.39416666666ex 03	.12666666666ex 10	.311184210527ex-06
2	.31833333333ex 03	.12183333333ex 10	.261285909713ex-06
3	.33083333333ex 03	.122000000000ex 10	.271174863387ex-06
4	.395000000000ex 03	.10866666666ex 10	.363496932517ex-06
5	.36833333333ex 03	.74833333330ex 09	.492204899779ex-06
6	.34833333333ex 03	.355000000000ex 09	.981220657276ex-06
7	.34166666666ex 03	.87833333330ex 09	.388994307401ex-06
8	.282500000000ex 03	.575000000000ex 09	.491304347826ex-06
9	.420000000000ex 03	.109000000000ex 10	.385321100917ex-06
			.506633878521ex-06

B. Subacute

Mouse No.	Ave. No. Mutant	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
	Colonies or Recombinants/ml		

HOST MEDIATED ASSAY
INDIVIDUAL MOUSE DATA

Compound No.: 71-14 (Locust Bean Gum)

Organism: G-46

Treatment: (-) CONTROL

A. Acute

Mouse No.	Ave. No. Mutant	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
	Colonies or Recombinants/ml		
1	.10833333333ex 02	.165000000000ex 10	.656565656563ex-08
2	.10833333333ex 02	.10483333333ex 10	.103338632750exy07
3	.750000000000ex 01	.18333333333ex 10	.409090909091ex-08
4	.833333333330ex 01	.906666666665ex 09	.919117647056ex-08
5	.833333333330ex 01	.155166666666ex 10	.537056928034ex-08
6	.125000000000ex 02	.144000000000ex 10	.868055555555ex-08
7	.125000000000ex 02	.17833333333ex 10	.700934579440ex-08
8	.116666666666ex 02	.161000000000ex 10	.724637681155ex-08
			.731105660546ex-08

B. Subacute

Mouse No.	Ave. No. Mutant	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
	Colonies or Recombinants/ml		
1	.750000000000ex 01	.22000000000ex 10	.340909090909ex-08
2	.141666666666ex 02	.22333333333ex 10	.634328358206ex-08
3	.100000000000ex 02	.188500000000ex 10	.530503978779ex-08
4	.583333333330ex 01	.501666666665ex 09	.116279069767ex-07
5	.141666666666ex 02	.156833333333ex 10	.903294367691ex-08
6	.200000000000ex 02	.190000000000ex 10	.105263157894ex-07
7	.141666666666ex 02	.631666666665ex 09	.224274406331ex-07
			.981028876500ex-08

Table 3 (continued)

HOST MEDIATED ASSAY
INDIVIDUAL MOUSE DATACompound No.: 71-14 (Locust Bean Gum)Organism: G-46Treatment: MAXIMUM

A. Acute

Mouse No.	Ave. No. Colonies or Recombinants/ml	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
1	.58333333330ex 01	.14166666666ex 10	.41176470588lex-08
2	.91666666665ex 01	.11216666666ex 10	.817236255575ex-08
3	.12500000000ex 02	.78833333330ex 09	.158562367865ex-07
4	.50000000000ex 01	.66333333330ex 09	.75376844224ex-08
5	.50000000000ex 01	.54833333330ex 09	.911854103349ex-08
6	.21666666666ex 02	.91500000000ex 09	.236794171219ex-07
7	.15000000000ex 02	.71500000000ex 09	.209790209790ex-07
8	.75000000000ex 01	.13883333333ex 10	.540216086435ex-08
9	.66666666665ex 01	.22166666666ex 09	.300751879699ex-07
10	.14166666666ex 02	.10283333333ex 10	.137763371150ex-07
.138714599926ex-07			

B. Subacute

Mouse No.	Ave. No. Colonies or Recombinants/ml	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
1	.33333333333ex 01	.80833333330ex 09	.41237113402lex-08
2	.29166666666ex 02	.94500000000ex 09	.308641975307ex-07
3	.16666666666ex 01	.11033333333ex 10	.151057401812ex-08
4	.33333333333ex 01	.85500000000ex 09	.389863547757ex-08
5	.16666666666ex 01	.11450000000ex 10	.145560407568ex-08
6	.83333333330ex 00	.59166666665ex 09	.140845070422ex-08
7	.50000000000ex 01	.84666666665ex 09	.590551181103ex-08
.702381213675ex-08			

Table 3 (continued)

HOST MEDIATED ASSAY
INDIVIDUAL MOUSE DATACompound No.: 71-14 (Locust Bean Gum)Organism: G-46Treatment: INTERMEDIATE

A. Acute

Mouse No.	Ave. No. Mutant Colonies or Recombinants/ml	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
1	.10833333333ex 02	.12950000000ex 10	.836550836548ex-08
2	.14166666666ex 02	.10550000000ex 10	.134281200631ex-07
3	.11666666666ex 02	.90833333330ex 09	.128440366972ex-07
4	.10833333333ex 02	.17083333333ex 10	.634146341462ex-08
5	.83333333330ex 01	.15466666666ex 10	.538793103448ex-08
6	.10000000000ex 02	.13666666666ex 10	.731707317076ex-08
7	.12500000000ex 02	.16816666666ex 10	.743310208129ex-08
8	.91666666665ex 01	.14066666666ex 10	.651658767774ex-08
9	.83333333330ex 01	.13950000000ex 10	.59737156511ex-08
			.817861535060ex-08

B. Subacute

Mouse No.	Ave. No. Mutant Colonies or Recombinants/ml	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
1	.20833333333ex 02	.13816666666ex 10	.15078407720lex-07
2	.16666666666ex 01	.16666666666ex 08	.10000000000ex-06
3	.25000000000ex 01	.13200000000ex 10	.189393939393ex-08
4	.83333333330ex 00	.15500000000ex 10	.537634408600ex-09
5	.25000000000ex 01	.71500000000ex 09	.349650349650ex-08
6	.41666666666ex 01	.13566666666ex 10	.307125307126ex-08
7	.50000000000ex 01	.56666666665ex 09	.882352941179ex-08
8	.25000000000ex 01	.34166666666ex 10	.731707317074ex-09
9	.16666666666ex 01	.78000000000ex 09	.213675213674ex-08
			.150855252168ex-07

Table 3 (continued)

HOST MEDIATED ASSAY
INDIVIDUAL MOUSE DATACompound No.: 71-14 (Locust Bean Gum)Organism: G-46Treatment: LOW

A. Acute

Mouse No.	Ave. No. Mutant	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
	Colonies or Recombinants/ml		
1	.133333333333ex 02	.118000000000ex 10	.112994350282ex-07
2	.116666666666ex 02	.126666666666ex 10	.921052631578ex-08
3	.208333333333ex 02	.473333333333ex 09	.440140845070ex-07
4	.666666666665ex 01	.873333333330ex 09	.763358778626ex-08
5	.833333333330ex 01	.190000000000ex 10	.438596491226ex-08
6	.833333333330ex 01	.148333333333ex 10	.561797752808ex-08
7	.291666666666ex 02	.186666666666ex 10	.156250000000ex-07
8	.216666666666ex 02	.165000000000ex 10	.131313131312ex-07
.138647361510ex-07			

B. Subacute

Mouse No.	Ave. No. Mutant	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
	Colonies or Recombinants/ml		
1	.333333333333ex 01	.843333333330ex 09	.395256916997ex-08
2	.166666666666ex 01	.218333333333ex 10	.763358778624ex-09
3	.500000000000ex 01	.673333333330ex 09	.742574257429ex-08
4	.333333333333ex 01	.823333333330ex 09	.404858299596ex-08
5	.166666666666ex 01	.813333333330ex 09	.204918032786ex-08
6	.833333333330ex 00	.736666666665ex 09	.113122171945ex-08
7	.666666666665ex 01	.136333333333ex 10	.488997555012ex-08
.346580444514ex-08			

Table 3 (continued)

HOST MEDIATED ASSAY
INDIVIDUAL MOUSE DATACompound No.: 71-14 (Locust Bean Gum)Organism: TA-1530Treatment: (+) CONTROL

A. Acute

<u>Mouse No.</u>	<u>Ave. No. Mutant Colonies or Recombinants/ml</u>	<u>Ave. No. Colony Forming Units/ml</u>	<u>Mutation or Recombination Frequency</u>
1	.39833333333ex 03	.55500000000ex 09	.717717717717ex-06
2	.37666666666ex 03	.99333333330ex 09	.379194630873ex-06
3	.37083333333ex 03	.67666666665ex 09	.548029556651ex-06
4	.36250000000ex 03	.60333333330ex 09	.600828729285ex-06
5	.38916666666ex 03	.14100000000ex 10	.276004728131ex-06
6	.31583333333ex 03	.27666666666ex 09	.11415662650ex-05
7	.31083333333ex 03	.40166666666ex 09	.773858921162ex-06
8	.32750000000ex 03	.36666666666ex 09	.893181818183ex-06
9	.39500000000ex 03	.94166666666ex 09	.419469026549ex-06
10	.30333333333ex 03	.46500000000ex 09	.652329749103ex-06
			.640218114269ex-06

B. Subacute

<u>Mouse No.</u>	<u>Ave. No. Mutant Colonies or Recombinants/ml</u>	<u>Ave. No. Colony Forming Units/ml</u>	<u>Mutation or Recombination Frequency</u>

Table 3 (continued)

HOST MEDIATED ASSAY
INDIVIDUAL MOUSE DATACompound No.: 71-14 (Locust Bean Gum)Organism: TA-1530Treatment: (-) CONTROL

A. Acute

Mouse No.	Ave. No. Colonies or Recombinants/ml	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
1	.666666666665ex 01	.621666666665ex 09	.107238605898ex-07
2	.416666666666ex 01	.331666666666ex 09	.125628140703ex-07
3	.108333333333ex 02	.101000000000ex 10	.107260726072ex-07
4	.416666666666ex 01	.440000000000ex 09	.946969596968ex-08
5	.833333333330ex 01	.92666666665ex 09	.899280575537ex-08
6	.833333333330ex 01	.495000000000ex 09	.168350168349ex-07
7	.108333333333ex 02	.460000000000ex 09	.235507246376ex-07
8	.150000000000ex 02	.696666666665ex 09	.215311004785ex-07
			.142990114928ex-07

B. Subacute

Mouse No.	Ave. No. Colonies or Recombinants/ml	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
1	.391666666666ex 02	.410000000000ex 09	.955284552843ex-07
2	.250000000000ex 02	.711666666665ex 09	.351288056206ex-07
3	.208333333333ex 02	.705000000000ex 09	.295508274231ex-07
4	.458333333333ex 02	.905000000000ex 09	.506445672191ex-07
5	.441666666666ex 02	.815000000000ex 09	.541922290387ex-07
6	.416666666666ex 02	.91333333330ex 09	.456204379562ex-07
7	.483333333333ex 02	.59333333330ex 09	.814606741577ex-07
8	.408333333333ex 02	.102166666666ex 10	.399673735728ex-07
			.540116712836ex-07

Table 3 (continued)

HOST MEDIATED ASSAY
INDIVIDUAL MOUSE DATACompound No.: 71-14 (Locust Bean Gum)Organism: TA-1530Treatment: MAXIMUM

A. Acute

Mouse No.	Ave. No. Mutant	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
	Colonies or Recombinants/ml		
1	.500000000000ex 01	.356666666666ex 09	.140186915888ex-07
2	.583333333330ex 01	.351666666666ex 09	.165876777250ex-07
3	.333333333333ex 01	.900000000000ex 08	.370370370370ex-07
4	.750000000000ex 01	.741666666665ex 09	.101123595505ex-07
5	.166666666666ex 01	.240000000000ex 09	.694444444441ex-08
6	.583333333330ex 01	.245000000000ex 09	.238095238093ex-07
7	.125000000000ex 02	.508333333330ex 09	.245901639345ex-07
8	.416666666666ex 01	.175000000000ex 09	.238095238094ex-07
			.196136777372ex-07

B. Subacute

Mouse No.	Ave. No. Mutant	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
	Colonies or Recombinants/ml		
1	.150000000000ex 02	.901666666665ex 09	.166358595194ex-07
2	.133333333333ex 02	.913333333330ex 09	.145985401460ex-07
3	.833333333330ex 01	.816666666665ex 09	.102040816326ex-07
4	.141666666666ex 02	.560000000000ex 09	.252976190475ex-07
5	.225000000000ex 02	.636666666665ex 09	.353403141362ex-07
6	.100000000000ex 02	.318333333333ex 09	.314136125654ex-07
7	.125000000000ex 02	.386666666666ex 09	.323275862069ex-07
8	.100000000000ex 02	.388333333333ex 09	.257510729613ex-07
			.239460857766ex-07

Table 3 (continued)

HOST MEDIATED ASSAY
INDIVIDUAL MOUSE DATACompound No.: 71-14 (Locust Bean Gum)Organism: TA-1530Treatment: INTERMEDIATE

A. Acute

Mouse No.	Ave. No. Mutant	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
	Colonies or Recombinants/ml		
1	.107142857142ex 02	.963333333330ex 09	.111220958971ex-07
2	.125000000000ex 02	.106500000000ex 10	.117370892018ex-07
3	.916666666665ex 01	.688333333330ex 09	.133171912833ex-07
4	.108333333333ex 02	.798333333330ex 09	.135699373695ex-07
5	.750000000000ex 01	.876056666665ex 09	.855513307986ex-08
6	.583333333330ex 01	.371666666666ex 09	.156950672645ex-07
7	.100000000000ex 02	.506666666665ex 09	.197368421053ex-07
8	.916666666665ex 01	.591666666665ex 09	.154929577464ex-07
9	.833333333330ex 01	.458333333333ex 09	.181818181817ex-07
10	.500000000000ex 01	.495000000000ex 09	.101010101010ex-07
			.137509142229ex-07

B. Subacute

Mouse No.	Ave. No. Mutant	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
	Colonies or Recombinants/ml		
1	.500000000000ex 01	.865000000000ex 09	.578034682080ex-08
2	.583333333330ex 01	.511666666665ex 09	.114006514657ex-07
3	.750000000000ex 01	.108333333333ex 09	.692307692309ex-07
4	.500000000000ex 01	.901666666665ex 09	.554528650647ex-08
5	.166666666666ex 01	.108333333333ex 10	.153846153846ex-08
6	.750000000000ex 01	.531666666665ex 09	.141065830721ex-07
7	.666666666665ex 01	.263333333333ex 09	.253164556961ex-07
8	.583333333330ex 01	.386666666666ex 09	.150862068964ex-07
9	.583333333330ex 01	.378333333333ex 09	.154185022025ex-07
			.181581403808ex-07

Table 3 (continued)

HOST MEDIATED ASSAY
INDIVIDUAL MOUSE DATACompound No.: 71-14 (Locust Bean Gum)Organism: TA-1530Treatment: LOW

A. Acute

Mouse No.	Ave. No. Colonies or Recombinants/ml	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
1	.50000000000ex 01	.55000000000ex 09	.90909090909ex-08
2	.25000000000ex 01	.98333333330ex 08	.254237288136ex-07
3	.41666666666ex 01	.83333333330ex 08	.50000000001ex-07
4	.41666666666ex 01	.75000000000ex 08	.55555555554ex-07
5	.75000000000ex 01	.45000000000ex 09	.16666666666ex-07
6	.12500000000ex 02	.47000000000ex 09	.26595744680ex-07
7	.66666666666ex 01	.22666666666ex 09	.294117647058ex-07
8	.833333333330ex 01	.79166666665ex 09	.105263157894ex-07
			.279088356625ex-07

B. Subacute

Mouse No.	Ave. No. Colonies or Recombinants/ml	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
1	.11666666666ex 02	.90000000000ex 09	.129629629628ex-07
2	.66666666666ex 01	.90666666665ex 09	.735294117646ex-08
3	.41666666666ex 01	.34500000000ex 09	.120772946859ex-07
4	.66666666666ex 01	.66333333330ex 09	.100502512563ex-07
5	.75000000000ex 01	.40333333333ex 09	.185950413223ex-07
6	.58333333330ex 01	.24833333333ex 09	.234899328858ex-07
			.140880707149ex-07

Table 3 (continued)

HOST MEDIATED ASSAY
INDIVIDUAL MOUSE DATACompound No.: 71-14 (Locust Bean Gum)Organism: D-3Treatment: (+) CONTROL

A. Acute

Mouse No.	Ave. No. Colonies or Recombinants/ml	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
1	.19000000000ex 05	.31000000000ex 08	.612903225806ex-03
2	.28000000000ex 05	.15166666666ex 08	.184615384616ex-02
3	.23500000000ex 05	.36833333333ex 08	.638009049774ex-03
4	.32000000000ex 05	.48500000000ex 08	.659793814432ex-03
5	.22500000000ex 05	.42166666666ex 08	.533596837945ex-03
6	.32000000000ex 05	.41500000000ex 08	.771084337345ex-03
7	.34000000000ex 05	.44000000000ex 08	.772727272727ex-03
8	.28000000000ex 05	.54833333330ex 08	.510638297875ex-03
			.793113335253ex-03

B. Subacute

Mouse No.	Ave. No. Colonies or Recombinants/ml	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency

Table 3 (continued)

HOST MEDIATED ASSAY
INDIVIDUAL MOUSE DATACompound No.: 71-14 (Locust Bean Gum)Organism: D-3Treatment: (-) CONTROL

A. Acute

Mouse No.	Ave. No. Mutant	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
	Colonies or Recombinants/ml		
1	.200000000000ex 04	.104000000000ex 08	.192307692307ex-03
2	.200000000000ex 04	.140000000000ex 08	.142857142857ex-03
3	.400000000000ex 04	.151666666666ex 08	.263736263737ex-03
4	.250000000000ex 04	.303333333333ex 08	.824175824176ex-04
5	.250000000000ex 04	.74833333330ex 08	.334075723832ex-04
6	.300000000000ex 04	.84166666665ex 08	.356435643565ex-04
7	.700000000000ex 04	.73166666665ex 08	.956719817769ex-04
8	.550000000000ex 04	.57666666665ex 08	.953757225436ex-04
			.117677190297ex-03

B. Subacute

Mouse No.	Ave. No. Mutant	Ave. No. Colony Forming Units/ml	Mutation or Recombination Frequency
	Colonies or Recombinants/ml		
1	.400000000000ex 04	.258333333333ex 08	.154838709677ex-03
2	.350000000000ex 04	.140250000000ex 08	.249554367201ex-03
3	.400000000000ex 04	.438333333333ex 08	.912547528517ex-04
4	.150000000000ex 04	.163333333333ex 08	.918367346940ex-04
5	.300000000000ex 04	.348333333333ex 08	.861244019139ex-04
6	.500000000000ex 04	.433333333333ex 08	.115384615384ex-03
7	.450000000000ex 04	.461666666666ex 08	.974729241878ex-04
8	.38888888888ex 04	.643333333330ex 08	.604490500865ex-04
			.118364444499ex-03

Table 3 (continued)

HOST MEDIATED ASSAY
INDIVIDUAL MOUSE DATACompound No.: 71-14 (Locust Bean Gum)Organism: D-3Treatment: INTERMEDIATE

A. Acute

Mouse No.	Ave. No. Mutant		Mutation or Recombination Frequency
	Colonies or Recombinants/ml	Ave. No. Colony Forming Units/ml	
1	.20000000000ex 04	.44666666666ex 08	.447761194030ex-04
2	.55000000000ex 04	.92833333330ex 08	.592459605029ex-04
3	.15000000000ex 04	.41666666666ex 08	.36000000000ex-04
4	.10000000000ex 04	.41666666666ex 08	.24000000000ex-04
5	.30000000000ex 04	.26333333333ex 08	.113924050632ex-03
6	.15000000000ex 04	.14333333333ex 08	.104651162790ex-03
7	.30000000000ex 04	.39333333333ex 08	.762711864407ex-04
8	.55000000000ex 04	.52500000000ex 08	.104761904761ex-03
9	.35000000000ex 04	.21000000000ex 08	.16666666666ex-03
10	.65000000000ex 04	.43333333333ex 08	.15000000000ex-03
			.880297051195ex-04

B. Subacute

Mouse No.	Ave. No. Mutant		Mutation or Recombination Frequency
	Colonies or Recombinants/ml	Ave. No. Colony Forming Units/ml	
1	.30000000000ex 04	.25666666666ex 08	.116883116883ex-03
2	.25000000000ex 04	.18333333333ex 08	.136363636363ex-03
3	.20000000000ex 04	.36500000000ex 08	.547945205479ex-04
4	.40000000000ex 04	.40500000000ex 08	.987654320987ex-04
5	.30000000000ex 04	.51500000000ex 08	.582524271844ex-04
6	.45000000000ex 04	.66333333330ex 08	.678391959802ex-04
7	.40000000000ex 04	.85500000000ex 08	.467836257309ex-04
8	.25000000000ex 04	.40833333333ex 08	.612244897959ex-04
			.801133055725ex-04

Table 3 (continued)

HOST MEDIATED ASSAY
INDIVIDUAL MOUSE DATACompound No.: 71-14 (Locust Bean Gum)Organism: D-3Treatment: LOW

A. Acute

<u>Mouse No.</u>	<u>Ave. No. Mutant Colonies or Recombinants/ml</u>	<u>Ave. No. Colony Forming Units/ml</u>	<u>Mutation or Recombination Frequency</u>
1	.550000000000ex 04	.260000000000ex 08	.211538461538ex-03
2	.550000000000ex 04	.340000000000ex 08	.161764705882ex-03
3	.250000000000ex 04	.365000000000ex 08	.684931506849ex-04
4	.350000000000ex 04	.185000000000ex 08	.189189189189ex-03
5	.100000000000ex 04	.225000000000ex 08	.444444444444ex-04
6	.600000000000ex 04	.476666666666ex 08	.125874125874ex-03
7	.700000000000ex 04	.370000000000ex 08	.189189189189ex-03
8	.600000000000ex 04	.496666666666ex 08	.120805369127ex-03
			.138912329490ex-03

B. Subacute

<u>Mouse No.</u>	<u>Ave. No. Mutant Colonies or Recombinants/ml</u>	<u>Ave. No. Colony Forming Units/ml</u>	<u>Mutation or Recombination Frequency</u>
1	.150000000000ex 04	.300000000000ex 08	.500000000000ex-04
2	.300000000000ex 04	.333333333333ex 08	.900000000000ex-04
3	.300000000000ex 04	.396666666666ex 08	.756302521009ex-04
4	.250000000000ex 04	.280000000000ex 08	.892857142857ex-04
5	.500000000000ex 04	.490000000000ex 08	.102040816326ex-03
6	.500000000000ex 04	.943333333330ex 08	.530035335690ex-04
7	.700000000000ex 04	.850000000000ex 08	.823529411764ex-04
8	.400000000000ex 04	.678333333330ex 08	.589680589683ex-04
9	.350000000000ex 04	.843333333330ex 08	.415019762847ex-04
			.714203658564ex-04

Table 4

HOST-MEDIATED ASSAY
IN VITRO MUTAGENICITY OF COMPOUND 71-14 (Locust Bean Gum)

Salmonella typhimurium G-46

<u>5% w/v 71-14</u>	EMS
---------------------	-----

negative	positive
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Salmonella typhimurium TA-1530

<u>5% w/v 71-14</u>	EMS
---------------------	-----

negative	positive
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Saccharomyces cerevisiae D-3

Compound	Concentration	Survival (%)	Recombinants/10 ³		Rft/RFc
			Survivors		
71-14	5% w/v		4.31		0.46
EMS	0.1% w/v	86	289.79		23.18
Control (-)	--	100	12.50 ✓		1.00

Table 5

CYTOGENETIC ASSAY
METAPHASE SUMMARY SHEET BY TIME OF SACRIFICE
Compound 71-14

<u>Dosage (mg/kg)</u>	<u>Time*</u>	<u>Mitotic Index (%)</u>	<u>No. of Animals</u>	<u>No. of Cells</u>	<u>Cells with Breaks (%)</u>	<u>Cells with Rearrange-ments (%)</u>	<u>Cells with More than One Type of Aber. (%)</u>	<u>Cells with Aber. (%)</u>
TEM (0.4 mg/kg)	6	0.5	5	243	4.5	0	0	4.5
Negative Control	6	1.1	3	150	0	0	0	0
30 mg/kg	6	1.65	5	250	2.8	0	0	2.8
2500 mg/kg	6	1.9	5	250	1.2	0	0	1.2
5000 mg/kg	6	1.4	5	250	0.4	0	0	0.4
Negative Control	24	1.75	3	150	0.7	0	0	0.7
30 mg/kg	24	1.65	5	250	0	0	0	0
2500 mg/kg	24	2.1	5	250	0.4	0	0	0.4
5000 mg/kg	24	2.55	5	250	0.4	0	0	0.4
Negative Control	48	1.6	3	150	1.3	0	0	1.3
30 mg/kg	48	1.35	5	250	0.8	0	0	0.8
2500 mg/kg	48	1.3	5	250	0.4	0	0	0.4
5000 mg/kg	48	1.3	5	245	0.4	0	0	0.4
Negative Control	SA**	2.15	3	150	0	0	0	0
30 mg/kg	SA	1.45	5	250	1.6	0	0	1.6
2500 mg/kg	SA	1.45	5	250	1.2	0	0	1.2
5000 mg/kg	SA	2.15	5	250	0.4	0	0	0.4

* Time of sacrifice after treatment (hours)

** SA = Subacute

Table 6
CYTOGENETIC ASSAY
Compound 71-14

PERCENT CELLS WITH GAPS

Dosage	Time*	No. of Cells	Cells with Gaps (%)
TEM at 0.4 mg/kg	6	243	21.0
Negative Control	6	150	4.7
30 mg/kg	6	250	6.8
2500 mg/kg	6	250	4.4
5000 mg/kg	6	250	5.6
Negative Control	24	150	1.3
30 mg/kg	24	250	3.6
2500 mg/kg	24	250	6.0
5000 mg/kg	24	250	6.0
Negative Control	48	150	6.0
30 mg/kg	48	250	5.6
2500 mg/kg	48	250	5.2
5000 mg/kg	48	245	2.4
Negative Control	SA**	150	1.3
30 mg/kg	SA	250	4.4
2500 mg/kg	SA	250	2.8
5000 mg/kg	SA	250	4.8

* Time of sacrifice after treatment (hours)

** SA = Subacute

Table 7

CYTOGENETIC ASSAY
ANAPHASE SUMMARY SHEET
Compound 71-14

Dosage	Time*	No. of Cells	Cells with Acentric Fragments (%)	Cells with Bridges (%)	Multipolar Cells (%)	Other (Abnormal) (%)	Cells with More than One Type Aber. (%)	Cells with Aber. (%)
Negative Control	42	112	3.6	5.4	1.8	0	0	10.7
10 µg/ml	42	181	3.9	1.7	0	0	0.5	5.0
100 µg/ml	42	107	2.8	2.8	0.9	0.9	0.9	5.6
1000 µg/ml	42	150	4.0	0.7	0	0	0	4.7
TEM (0.05 µg/ml)	24	55	34.5	9.1	7.3	41.8	25.5	65.5

* Time of harvest after treatment (hours)

DOMINANT LETHAL GENE-RAT

Table 8

AVERAGE IMPLANTATIONS PER PREGNANT FEMALE

Compound: Locust Bean Gum
FDA No: 71-14

Week of Study	Control (10 ml/kg)	TEM (0.2 mg/kg)	71-14 (30 mg/kg)	71-14 (2.5 g/kg)	71-14 (5 g/kg)
<u>Acute-Single Dose</u>					
1	183/17=10.8	159/14=11.4	135/13=10.4	99/10= 9.9	121/10=12.1
2	248/20=12.4	189/18=10.5	221/19=11.6	239/20=12.0	224/19=11.8
3	236/20=11.8	197/20= 9.9	241/19=12.7	262/20=13.1	225/18=12.5
4	254/20=12.7	116/20= 5.8**	246/20=12.3	253/20=12.7	266/20=13.3
5	247/20=12.4	234/20=11.7	227/20=11.4	257/20=12.9	238/20=11.9
6	262/20=13.1	267/20=13.4	203/18=11.3**	255/20=12.8	245/20=12.3
7	262/20=13.1	244/20=12.2	238/20=11.9	267/20=13.4	241/20=12.1
8	193/17=11.4	264/20=13.2*I	170/16=10.6	219/18=12.2	216/20=10.8
<u>Subacute-Multiple Dose</u>					
1			145/12=12.1	189/16=11.8	182/16=11.4
2			186/15=12.4	245/19=12.9	240/19=12.6
3			230/20=11.5	222/20=11.1	239/20=12.0
4			260/20=13.0	261/20=13.1	248/20=12.4
5			225/18=12.5	249/20=12.5	183/15=12.2
6			248/20=12.4	221/20=11.1**	246/20=12.3
7			218/19=11.5*	236/20=11.8*	240/20=12.0

* Significant at $P < 0.05$

** Significant at $P < 0.01$

I Increased above control

DOMINANT LETTAL GENE-RAT

Table 9

AVERAGE DEAD IMPLANTS PER PREGNANT FEMALE

Compound: Locust Bean Gum
FDA No: 71-14

Week of Study	Control (10 ml/kg)	TEM (0.2 mg/kg)	71-14 (30 mg/kg)	71-14 (2.5 g/kg)	71-14 (5 g/kg)
<u>Acute-Single Dose</u>					
1	9/17=0.53	53/14=3.79**	16/13=1.23	2/10=0.20	3/10=0.30
2	13/20=0.65	115/18=6.39**	7/19=0.37	9/20=0.45	11/19=0.58
3	13/20=0.65	146/20=7.30**	28/19=1.47	12/20=0.60	11/18=0.61
4	10/20=0.50	103/20=5.15**	18/20=0.90	10/20=0.50	15/20=0.75
5	25/20=1.25	48/20=2.40	17/20=0.85	6/20=0.30	6/20=0.30
6	11/20=0.55	29/20=1.45*	11/18=0.61	17/20=0.85	14/20=0.70
7	16/20=0.80	12/20=0.60	8/20=0.40	8/20=0.40	14/20=0.70
8	18/17=1.06	16/20=0.80	16/16=1.00	11/18=0.61	20/20=1.00
<u>Subacute-Multiple Dose</u>					
1		18/12=1.50	9/16=0.56	9/16=0.56	
2		22/15=1.47	16/19=0.84	19/19=1.00	
3		23/20=1.15	15/20=0.75	20/20=1.00	
4		34/20=1.70	19/20=0.95	18/20=0.90	
5		27/18=1.50	12/20=0.60	10/15=0.67	
6		32/20=1.60	15/20=0.75	12/20=0.60	
7		45/19=2.37	16/20=0.80	11/20=0.55	

* Significant at $P < 0.05$

** Significant at $P < 0.01$

DOMINANT LETHAL GENE-RAT

Table 10

DEAD IMPLANTS/TOTAL IMPLANTS

Compound: Locust Bean Gum
FDA No: 71-14

Week of Study	Control (10 ml/kg)	TEM (0.2 mg/kg)	71-14 (30 mg/kg)	71-14 (2.5 g/kg)	71-14 (5 g/kg)
<u>Acute-Single Dose</u>					
1	9/183=0.05	53/159=0.33**	16/135=0.12	2/99 =0.02	3/121=0.02
2	13/248=0.05	115/189=0.61**	7/221=0.03	9/239=0.04	11/224=0.05
3	13/236=0.06	146/197=0.74**	28/241=0.12	12/262=0.05	11/225=0.05
4	10/254=0.04	103/116=0.89**	18/246=0.07	10/253=0.04	15/266=0.06
5	25/247=0.10	48/234=0.21	17/227=0.07	6/257=0.02	6/238=0.03
6	11/262=0.04	29/267=0.11**	11/203=0.05	17/255=0.07	14/245=0.06
7	16/262=0.06	12/244=0.05	8/238=0.03	8/267=0.03	14/241=0.06
8	18/193=0.09	16/264=0.06	16/170=0.09	11/219=0.05	20/216=0.09
<u>Subacute-Multiple Dose</u>					
1		18/145=0.12	9/189=0.05	9/182=0.05	
2		22/186=0.12	16/245=0.07	19/240=0.08	
3		23/230=0.10	15/222=0.07	20/239=0.08	
4		34/260=0.13	19/261=0.07	18/248=0.07	
5		27/225=0.12	12/249=0.05	10/183=0.05	
6		32/248=0.13	15/221=0.07	12/246=0.05	
7		45/218=0.21	16/236=0.07	11/240=0.05	

** Significant at P < 0.01

DOMINANT LETHAL GENE-RAT

Table 11

AVERAGE CORPORA LUTEA PER PREGNANT FEMALE

Compound:Locust Bean Gum
FDA No: 71-14

Week of Study	Control (10 ml/kg)	TEM (0.2 mg/kg)	71-14 (30 mg/kg)	71-14 (2.5 g/kg)	71-14 (5 g/kg)
<u>Acute-Single Dose</u>					
1	207/17=12.2	178/14=12.7	159/13=12.2	116/10=11.6	125/10=12.5
2	259/20=13.0	234/18=13.0	245/19=12.9	257/20=12.9	238/19=12.5
3	262/20=13.1	258/20=12.9	254/19=13.4	276/20=13.8	247/18=13.7
4	267/20=13.4	225/20=11.3**	287/20=14.4*I	261/20=13.1	273/20=13.7
5	261/20=13.1	253/20=12.7	253/20=12.7	263/20=13.2	249/20=12.5
6	277/20=13.9	297/20=14.9*I	236/18=13.1	279/20=14.0	278/20=13.9
7	273/20=13.7	261/20=13.1	252/20=12.6*	275/20=13.8	258/20=12.9
8	223/17=13.1	282/20=14.1*I	204/16=12.8	232/18=12.9	256/20=12.8
Subacute-Multiple Dose					
1			162/12=13.5	210/16=13.1	193/16=12.1
2			208/15=13.9	258/19=13.6	255/19=13.4
3			264/20=13.2	251/20=12.6	272/20=13.6
4			268/20=13.4	269/20=13.5	258/20=12.9
5			249/18=13.8	267/20=13.4	197/15=13.1
6			267/20=13.4	249/20=12.5**	266/20=13.3
7			244/19=12.8	256/20=12.8	263/20=13.2

* Significant at $P < 0.05$

** Significant at $P < 0.01$

I Increase above control

August 1972

Compound Report No. 7 (Statistical Addendum--Dominant Lethal Gene Data)

STUDY OF MUTAGENIC EFFECTS OF LOCUST BEAN GUM (FDA No. 71-14)

Prepared for:

DHEW/PUBLIC HEALTH SERVICE
Food and Drug Administration
Rockville, Maryland

Contract No. FDA 71-267

SRI Project LSU-1348

Submitted by:

G. W. Newell and W. A. Maxwell

Approved:

W.A. Skinner
W. A. Skinner, Executive Director
Life Sciences Division

STATISTICAL SUMMARY

This addendum presents statistical treatment of the dominant lethal gene data for Locust Bean Gum, using the procedural outline of Miss Janet Springer, FDA. A description of the statistical procedures and an explanation of how the computations are accomplished were presented as Appendix A of Compound Report No. 8, Guar Gum (71-16). Summary tables of experimental data also are included for reference.

A review of these statistical evaluations continues to support the conclusions presented in the main report: i.e., Locust Bean Gum is not a mutagenic substance by the dominant lethal gene test.

DOMINANT LETHAL GENE-RAT

Table 8

AVERAGE IMPLANTATIONS PER PREGNANT FEMALE

Compound: Locust Bean Gum
FDA No: 71-14

Week of Study	Control (10 ml/kg)	TEM (0.2 mg/kg)	71-14 (30 mg/kg)	71-14 (2.5 g/kg)	71-14 (5 g/kg)
<u>Acute-Single Dose</u>					
1	183/17=10.8	159/14=11.4	135/13=10.4	99/10= 9.9	121/10=12.1
2	248/20=12.4	189/18=10.5*	221/19=11.6	239/20=12.0	224/19=11.8
3	236/20=11.8	197/20= 9.9	241/19=12.7	262/20=13.1	225/18=12.5
4	254/20=12.7	116/20= 5.8**	246/20=12.3	253/20=12.7	266/20=13.3
5	247/20=12.4	234/20=11.7	227/20=11.4	257/20=12.9	238/20=11.9
6	262/20=13.1	267/20=13.4	203/18=11.3**	255/20=12.8	245/20=12.3
7	262/20=13.1	244/20=12.2	238/20=11.9 *	267/20=13.1	241/20=12.1
8	193/17=11.4	264/20=13.2*I	170/16=10.6	219/18=12.2	216/20=10.8
<u>Subacute-Multiple Dose</u>					
1		145/12=12.1	189/16=11.8	182/16=11.4	
2		186/15=12.4	245/19=12.9	240/19=12.6	
3		230/20=11.5	222/20=11.1	239/20=12.0	
4		260/20=13.0	261/20=13.1	248/20=12.4	
5		225/18=12.5	249/20=12.5	183/15=12.2	
6		248/20=12.4	221/20=11.1**	246/20=12.3	
7		218/19=11.5**	236/20=11.8*	240/20=12.0	

* Significant at $P < 0.05$

** Significant at $P < 0.01$

I Increased above control

DOMINANT LETHAL GENE-RAT

Table 9

AVERAGE DEAD IMPLANTS PER PREGNANT FEMALE

Compound: Locust Bean Gum
FDA No: 71-14

Week of Study	Control (10 ml/kg)	TEM (0.2 mg/kg)	71-14 (30 mg/kg)	71-14 (2.5 g/kg)	71-14 (5 g/kg)
<u>Acute-Single Dose</u>					
1	9/17=0.53	53/14=3.79**	16/13=1.23	2/10=0.20	3/10=0.30
2	13/20=0.65	115/18=6.39**	7/19=0.37	9/20=0.45	11/19=0.58
3	13/20=0.65	146/20=7.30**	28/19=1.47	12/20=0.60	11/18=0.61
4	10/20=0.50	103/20=5.15**	18/20=0.90	10/20=0.50	15/20=0.75
5	25/20=1.25	48/20=2.40	17/20=0.85	6/20=0.30	6/20=0.30
6	11/20=0.55	29/20=1.45**	11/18=0.61	17/20=0.85	14/20=0.70
7	16/20=0.80	12/20=0.60	8/20=0.40	8/20=0.40	14/20=0.70
8	18/17=1.06	16/20=0.80	16/16=1.00	11/18=0.61	20/20=1.00
<u>Subacute-Multiple Dose</u>					
1		18/12=1.50	9/16=0.56	9/16=0.56	
2		22/15=1.47	16/19=0.84	19/19=1.00	
3		23/20=1.15	15/20=0.75	20/20=1.00	
4		34/20=1.70	19/20=0.95	18/20=0.90	
5		27/18=1.50	12/20=0.60	10/15=0.67	
6		32/20=1.60	15/20=0.75	12/20=0.60	
7		45/19=2.37	16/20=0.80	11/20=0.55	

* Significant at $P < 0.05$

** Significant at $P < 0.01$

DOMINANT LETHAL GENE-RAT

Table 10
DEAD IMPLANTS/TOTAL IMPLANTS

Compound: Locust Bean Gum
FDA No: 71-14

Week of Study	Control (10 ml/kg)	TEM (0.2 mg/kg)	71-14 (30 mg/kg)	71-14 (2.5 g/kg)	71-14 (5 g/kg)
<u>Acute-Single Dose</u>					
1	9/183=0.05	53/159=0.33**	16/135=0.12	2/99 =0.02	3/121=0.02
2	13/248=0.05	115/189=0.61**	7/221=0.03	9/239=0.04	11/224=0.05
3	13/236=0.06	146/197=0.74**	28/241=0.12	12/262=0.05	11/225=0.05
4	10/254=0.04	103/116=0.89**	18/246=0.07	10/253=0.04	15/266=0.06
5	25/247=0.10	48/234=0.21*	17/227=0.07	6/257=0.02	6/238=0.03
6	11/262=0.04	29/267=0.11**	11/203=0.05	17/255=0.07	14/245=0.06
7	16/262=0.06	12/244=0.05	8/238=0.03	8/267=0.03	14/241=0.06
8	18/193=0.09	16/264=0.06	16/170=0.09	11/219=0.05	20/216=0.09
<u>Subacute-Multiple Dose</u>					
1		18/145=0.12	9/189=0.05	9/182=0.05	
2		22/186=0.12	16/245=0.07	19/240=0.08	
3		23/230=0.10	15/222=0.07	20/239=0.08	
4		34/260=0.13	19/261=0.07	18/248=0.07	
5		27/225=0.12	12/249=0.05	10/183=0.05	
6		32/248=0.13	15/221=0.07	12/246=0.05	
7		45/218=0.21	16/236=0.07	11/240=0.05	

** Significant at P < 0.01

DOMINANT LETHAL GENE-RAT

Table 11

AVERAGE CORPORA LUTEA PER PREGNANT FEMALE

Compound:Locust Bean Gum
FDA No: 71-14

Week of Study	Control (10 ml/kg)	TEM (0.2 mg/kg)	71-14 (30 mg/kg)	71-14 (2.5 g/kg)	71-14 (5 g/kg)
<u>Acute-Single Dose</u>					
1	207/17=12.2	178/14=12.7	159/13=12.2	116/10=11.6	125/10=12.5
2	259/20=13.0	234/18=13.0	245/19=12.9	257/20=12.9	238/19=12.5
3	262/20=13.1	258/20=12.9	254/19=13.4	276/20=13.8	247/18=13.7
4	267/20=13.4	225/20=11.3**	287/20=14.4*I	261/20=13.1	273/20=13.7
5	261/20=13.1	253/20=12.7	253/20=12.7	263/20=13.2	249/20=12.5
6	277/20=13.9	297/20=14.9	236/18=13.1	279/20=14.0	278/20=13.9
7	273/20=13.7	261/20=13.1	252/20=12.6*	275/20=13.8	258/20=12.9
8	223/17=13.1	282/20=14.1*I	204/16=12.8	232/18=12.9	256/20=12.8
<u>Subacute-Multiple Dose</u>					
1			162/12=13.5	210/16=13.1	193/16=12.1
2			208/15=13.9	258/19=13.6	255/19=13.4
3			264/20=13.2	251/20=12.6	272/20=13.6
4			268/20=13.4	269/20=13.5	258/20=12.9
5			249/18=13.8	267/20=13.4	197/15=13.1
6			267/20=13.4	249/20=12.5**	266/20=13.3
7			244/19=12.8	256/20=12.8	263/20=13.2

* Significant at $P < 0.05$

** Significant at $P < 0.01$

I Increase above control

DOMINANT LETHAL GENE-RAT

Table 12

AVERAGE PREIMPLANTATION LOSS PER PREGNANT FEMALE

Compound: Locust Bean Gum
 FDA No: 71-14

Week of Study	Control (10 ml/kg)	TEM (0.2 mg/kg)	71-14 (30 mg/kg)	71-14 (2.5 g/kg)	71-14 (5 g/kg)
<u>Acute-Single Dose</u>					
1	24/17=1.41	19/14=1.36	24/13=1.85	17/10=1.70	4/10=0.40
2	11/20=0.55	45/18=2.50**	24/19=1.26	18/20=0.90	14/19=0.74
3	26/20=1.30	61/20=3.05*	13/19=0.68	14/20=0.70	22/18=1.22
4	13/20=0.65	109/20=5.45**	41/20=2.05	8/20=0.40	7/20=0.35
5	14/20=0.70	19/20=0.95	26/20=1.30	6/20=0.30	11/20=0.55
6	15/20=0.75	30/20=1.50	33/18=1.83	24/20=1.20	33/20=1.65
7	11/20=0.55	17/20=0.85	14/20=0.70	8/20=0.40	17/20=0.85
8	30/17=1.76	18/20=0.90	34/16=2.13	13/18=0.72	40/20=2.00
<u>Subacute-Multiple Dose</u>					
1			17/12=1.42	21/16=1.31	11/16=0.69
2			22/15=1.47*	13/19=0.68	15/19=0.79
3			34/20=1.70	29/20=1.45	33/20=1.65
4			8/20=0.40	8/20=0.40	10/20=0.50
5			24/18=1.33	18/20=0.90	14/15=0.93
6			19/20=0.95	28/20=1.40	20/20=1.00
7			26/19=1.37*	20/20=1.00	23/20=1.15

* Significant at $P < 0.05$

** Significant at $P < 0.01$

Raw Data and Statistical Analyses

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DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

LOCUST BEAN GUM

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREV.	IMPLANTS			EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
								L	R	L	R	L	R	L	R
CNTRL14	1	S	-0.0000	1	1	Y	0	1		0	0	0	0	4	7
CNTRL14	1	S	-0.0000	1	2	YY	6	5	5	0	0	0	0	6	5
CNTRL14	1	S	-0.0000	2	3	YY	7	5	4	0	0	0	0	8	5
CNTRL14	1	S	-0.0000	2	4	YY	8	4	5	1	0	0	1	7	5
CNTRL14	1	S	-0.0000	3	5	YY	7	5	5	0	0	0	1	7	0
CNTRL14	1	S	-0.0000	3	6	Y	-0	-0	-0	-0	-0	-0	-0	-0	-0
CNTRL14	1	S	-0.0000	4	7	Y	3	3		0	0	1	0	7	7
CNTRL14	1	S	-0.0000	4	8	Y	4	5		0	0	0	0	4	5
CNTRL14	1	S	-0.0000	5	9	Y	5	6		0	0	0	0	5	7
CNTRL14	1	S	-0.0000	5	10	Y	10	5	5	1	0	0	0	10	5
CNTRL14	1	S	-0.0000	6	11	Y	5	5		0	0	0	0	5	7
CNTRL14	1	S	-0.0000	6	12	Y	4	7		0	0	0	0	6	8
CNTRL14	1	S	-0.0000	7	13	Y	5	8		0	0	0	0	6	0
CNTRL14	1	S	-0.0000	7	14	N	-0	-0	-0	-0	-0	-0	-0	-0	-0
CNTRL14	1	S	-0.0000	8	15	Y	5	7		0	0	1	0	5	7
CNTRL14	1	S	-0.0000	8	16	Y	8	4		1	0	0	0	8	4
CNTRL14	1	S	-0.0000	9	17	Y	8	5		0	0	0	0	9	6
CNTRL14	1	S	-0.0000	9	18	Y	6	4		0	0	0	0	7	4
CNTRL14	1	S	-0.0000	10	19	Y	3	10		0	0	0	0	3	10
CNTRL14	1	S	-0.0000	10	20	N	-0	-0	-0	-0	-0	-0	-0	-0	-0
71-14	1	S	.0300	51	101	Y	2	7		0	0	0	0	1	9
71-14	1	S	.0300	51	102	YY	0	10		0	0	0	0	1	11
71-14	1	S	.0300	52	103	Y	-0	-0	-0	-0	-0	-0	-0	-0	-0
71-14	1	S	.0300	52	104	YY	7	7		0	1	2	2	7	7
71-14	1	S	.0300	53	105	Y	7	4		0	0	0	0	8	4
71-14	1	S	.0300	53	106	NN	-0	-0	-0	-0	-0	-0	-0	-0	-0
71-14	1	S	.0300	54	107	N	-0	-0	-0	-0	-0	-0	-0	-0	-0
71-14	1	S	.0300	54	108	Y	4	9		0	0	1	0	4	9
71-14	1	S	.0300	55	109	Y	-0	-0	-0	-0	-0	-0	-0	-0	-0
71-14	1	S	.0300	55	110	Y	2	2		0	0	0	0	5	5
71-14	1	S	.0300	56	111	Y	6	9		0	0	0	0	6	9
71-14	1	S	.0300	56	112	Y	0	3		0	0	0	0	3	5
71-14	1	S	.0300	57	113	Y	7	6		0	1	0	0	7	6
71-14	1	S	.0300	57	114	N	-0	-0	-0	-0	-0	-0	-0	-0	-0
71-14	1	S	.0300	58	115	NN	-0	-0	-0	-0	-0	-0	-0	-0	-0
71-14	1	S	.0300	58	116	Y	7	3		1	1	0	0	7	3
71-14	1	S	.0300	59	117	Y	-0	-0	-0	-0	-0	-0	-0	-0	-0
71-14	1	S	.0300	59	118	Y	4	7		0	3	1	0	5	7
71-14	1	S	.0300	60	119	Y	5	6		0	0	0	0	5	6
71-14	1	S	.0300	60	120	Y				0	0	0	0	0	0

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

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DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

LOCUST BEAN GUM

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DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

LOCUST BEAN GUM

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS	EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
								L	R	L	R	L	R
71-14	1	M	.0300	41	81	Y	4	6	0	0	0	0	8 10
71-14	1	M	.0300	41	82	N	-0	-0	-0	-0	-0	-0	-0 -0
71-14	1	M	.0300	42	83	N	-0	-0	-0	-0	-0	-0	-0 -0
71-14	1	M	.0300	42	84	Y	5	7	3	6	0	0	5 9
71-14	1	M	.0300	43	85	YY	11	4	0	0	1	11	4
71-14	1	M	.0300	43	86	Y	5	7	1	1	0	0	5 8
71-14	1	M	.0300	44	87	Y	-0	-0	-0	-0	-0	-0	-0 -0
71-14	1	M	.0300	44	88	NN	-0	-0	-0	-0	-0	-0	-0 -0
71-14	1	M	.0300	45	89	NN	-0	-0	-0	-0	-0	-0	-0 -0
71-14	1	M	.0300	45	90	NN	-0	-0	-0	-0	-0	-0	-0 -0
71-14	1	M	.0300	46	91	NN	-0	-0	-0	-0	-0	-0	-0 -0
71-14	1	M	.0300	46	92	YY	8	5	0	0	0	0	8 5
71-14	1	M	.0300	47	93	YY	9	4	0	0	0	0	9 4
71-14	1	M	.0300	47	94	YY	-0	-0	-0	-0	-0	-0	-0 -0
71-14	1	M	.0300	48	95	YY	5	7	0	0	0	1	5 7
71-14	1	M	.0300	48	96	YY	7	4	0	0	0	1	8 4
71-14	1	M	.0300	49	97	YY	3	4	0	0	0	1	3 7
71-14	1	M	.0300	49	98	YY	2	10	0	0	0	1	2 10
71-14	1	M	.0300	50	99	YY	4	10	0	0	0	0	4 11
71-14	1	M	.0300	50	100	YY	7	7	0	0	1	0	8 7
71-14	1	M	2.5000	51	101	YY	8	5	0	0	1	0	8 7
71-14	1	M	2.5000	51	102	YY	4	8	0	0	0	0	4 8
71-14	1	M	2.5000	52	103	NN	-0	-0	-0	-0	-0	-0	-0 -0
71-14	1	M	2.5000	52	104	YY	3	9	0	0	0	0	6 10
71-14	1	M	2.5000	53	105	YY	7	6	1	0	0	0	7 6
71-14	1	M	2.5000	53	106	NN	-0	-0	-0	-0	-0	-0	-0 -0
71-14	1	M	2.5000	54	107	YY	8	7	0	0	0	0	8 7
71-14	1	M	2.5000	54	108	YY	5	7	0	0	1	2	5 8
71-14	1	M	2.5000	55	109	YY	3	7	0	0	0	0	3 8
71-14	1	M	2.5000	55	110	YY	8	7	0	0	0	0	8 7
71-14	1	M	2.5000	56	111	NY	-0	-0	-0	-0	-0	-0	-0 -0
71-14	1	M	2.5000	56	112	YY	5	0	0	0	0	0	6 6
71-14	1	M	2.5000	57	113	YY	0	5	0	0	0	0	5 8
71-14	1	M	2.5000	57	114	YY	6	8	1	1	0	0	6 8
71-14	1	M	2.5000	58	115	YY	8	4	0	0	0	0	8 4
71-14	1	M	2.5000	58	116	YN	-0	-0	-0	-0	-0	-0	-0 -0
71-14	1	M	2.5000	59	117	YY	9	3	1	0	0	0	10 5
71-14	1	M	2.5000	59	118	YY	5	8	0	0	0	0	5 8
71-14	1	M	2.5000	60	119	YY	5	5	0	0	0	0	5 5
71-14	1	M	2.5000	60	120	YY	8	8	0	0	0	0	8 8

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

LOCUST BEAN GUM

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS		EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
							L	R	L	R	L	R	L	R
71-14	1	M	5.0000	61	121	Y	5	6	0	0	0	0	7	6
71-14	1	M	5.0000	61	122	N	-0	-0	-0	-0	-0	-0	-0	-0
71-14	1	M	5.0000	62	123	N	-0	-0	-0	-0	-0	-0	-0	-0
71-14	1	M	5.0000	62	124	YY	5	7	0	0	0	0	5	7
71-14	1	M	5.0000	63	125	YY	6	4	0	0	1	1	7	5
71-14	1	M	5.0000	63	126	NY	-0	-0	-0	-0	-0	-0	-0	-0
71-14	1	M	5.0000	64	127	YY	8	3	0	0	1	0	8	3
71-14	1	M	5.0000	64	128	YY	5	7	1	0	0	0	7	7
71-14	1	M	5.0000	65	129	YY	6	7	0	0	0	0	6	8
71-14	1	M	5.0000	65	130	YY	4	5	0	0	0	0	5	5
71-14	1	M	5.0000	66	131	YY	5	6	0	0	0	0	5	6
71-14	1	M	5.0000	66	132	YY	7	3	0	0	0	1	8	4
71-14	1	M	5.0000	67	133	YY	5	9	0	0	1	2	5	10
71-14	1	M	5.0000	67	134	NY	-0	-0	-0	-0	-0	-0	-0	-0
71-14	1	M	5.0000	68	135	YYY	4	7	0	0	0	0	4	7
71-14	1	M	5.0000	68	136	YY	5	8	0	0	0	0	5	8
71-14	1	M	5.0000	69	137	YY	3	7	0	0	0	0	3	7
71-14	1	M	5.0000	69	138	YY	6	6	0	0	0	0	6	6
71-14	1	M	5.0000	70	139	YY	6	5	0	0	1	0	6	5
71-14	1	M	5.0000	70	140	Y	0	5	0	0	0	0	7	5

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-13

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS	EARLY DEATHS		LATE DEATHS		CORPORA LUTEA		
								L	R	L	R	L	R	
CNTRL14	2	S	-0.0000	1	1	Y	9	5	0	1	0	1	9	5
CNTRL14	2	S	-0.0000	1	2	YY	4	6	0	0	0	0	4	6
CNTRL14	2	S	-0.0000	2	3	YY	6	6	0	0	0	0	6	6
CNTRL14	2	S	-0.0000	2	4	YY	9	5	0	0	0	1	9	5
CNTRL14	2	S	-0.0000	3	5	YY	7	5	0	0	0	0	3	9
CNTRL14	2	S	-0.0000	3	6	YY	3	9	0	0	0	0	6	6
CNTRL14	2	S	-0.0000	4	7	YY	6	6	0	0	1	1	6	9
CNTRL14	2	S	-0.0000	4	8	YY	9	2	0	0	0	0	7	2
CNTRL14	2	S	-0.0000	5	9	YY	7	6	0	0	0	1	7	7
CNTRL14	2	S	-0.0000	5	10	YY	7	6	0	0	0	0	6	7
CNTRL14	2	SS	-0.0000	6	11	YY	6	7	0	0	2	0	8	3
CNTRL14	2	S	-0.0000	6	12	YY	8	3	0	0	0	0	5	8
CNTRL14	2	S	-0.0000	7	13	YY	4	5	0	0	0	1	5	6
CNTRL14	2	S	-0.0000	7	14	YY	5	7	0	0	0	1	6	7
CNTRL14	2	SS	-0.0000	8	15	YY	6	7	0	0	0	0	7	7
CNTRL14	2	S	-0.0000	8	16	YY	7	7	0	0	0	0	7	7
CNTRL14	2	S	-0.0000	9	17	YY	4	5	0	0	0	0	4	8
CNTRL14	2	S	-0.0000	9	18	YY	5	6	0	0	0	0	7	6
CNTRL14	2	S	-0.0000	10	19	YY	9	6	0	0	1	1	6	6
CNTRL14	2	S	-0.0000	10	20	Y	7	6	0	0	0	0	8	3
71-14	2	S	.0300	51	101	YY	7	6	1	0	0	0	7	8
71-14	2	SS	.0300	51	102	YY	9	4	0	0	0	1	9	5
71-14	2	S	.0300	52	103	YY	5	3	0	0	0	1	5	6
71-14	2	S	.0300	52	104	YY	3	8	0	0	0	0	8	8
71-14	2	SS	.0300	53	105	YY	2	7	0	0	0	0	7	7
71-14	2	S	.0300	53	106	YY	7	7	0	0	0	0	8	8
71-14	2	S	.0300	54	107	YY	4	6	0	0	0	0	6	6
71-14	2	SS	.0300	54	108	YY	2	7	0	0	0	0	7	5
71-14	2	S	.0300	55	109	YY	5	6	0	0	0	0	4	4
71-14	2	S	.0300	55	110	YY	7	4	0	0	0	0	9	9
71-14	2	SS	.0300	56	111	YY	6	9	-0	-0	-0	-0	0	0
71-14	2	S	.0300	56	112	Y	6	9	-0	-0	-0	-0	0	0
71-14	2	SS	.0300	56	112	N	0	0	0	0	0	0	0	0
71-14	2	S	.0300	57	113	YY	6	7	0	0	0	0	6	7
71-14	2	SS	.0300	57	114	YY	5	3	0	0	0	0	7	7
71-14	2	S	.0300	58	115	YY	3	7	0	0	0	0	9	9
71-14	2	SS	.0300	58	116	YY	7	5	0	0	0	0	5	6
71-14	2	S	.0300	59	117	YY	5	7	0	0	0	0	6	6
71-14	2	SS	.0300	59	118	YY	7	8	0	0	0	0	7	8
71-14	2	S	.0300	60	119	YY	5	6	0	0	0	0	6	6
71-14	2	SS	.0300	60	120	YY	3	5	0	0	0	0	0	0

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PRE.	IMPLANTS	EARLY DEATHS		LATE DEATHS		CORPORA LUTEA		
								L	R	L	R	L	R	
71-14	2	S	2.5000	61	121	Y	6	4	0	0	0	0	6	4
71-14	2	SS	2.5000	61	122	YY	2	9	0	0	0	0	6	6
71-14	2	SS	2.5000	62	123	YY	6	7	0	0	0	0	8	8
71-14	2	SS	2.5000	62	124	YY	6	8	0	0	0	0	7	7
71-14	2	SS	2.5000	63	125	YY	7	6	0	0	0	1	7	11
71-14	2	SS	2.5000	63	126	YY	2	11	1	0	0	0	8	6
71-14	2	SS	2.5000	64	127	YY	8	6	0	0	0	0	6	9
71-14	2	SS	2.5000	64	128	YY	6	8	0	0	0	0	6	6
71-14	2	SS	2.5000	65	129	YY	6	6	0	0	0	0	7	7
71-14	2	SS	2.5000	65	130	YY	7	7	0	0	0	1	7	7
71-14	2	SS	2.5000	66	131	YY	7	7	0	0	0	2	7	5
71-14	2	SS	2.5000	66	132	YY	7	5	0	0	0	0	7	7
71-14	2	SS	2.5000	67	133	YY	7	3	0	0	0	0	7	3
71-14	2	SS	2.5000	67	134	YY	9	2	0	0	0	0	9	2
71-14	2	SS	2.5000	68	135	YY	2	9	0	0	0	0	10	11
71-14	2	SS	2.5000	68	136	YY	2	9	0	0	0	0	2	5
71-14	2	SS	2.5000	69	137	YY	2	10	0	0	0	0	10	10
71-14	2	SS	2.5000	69	138	YY	0	2	0	0	0	0	4	3
71-14	2	SS	2.5000	70	139	YY	5	7	0	0	0	0	5	8
71-14	2	S	2.5000	70	140	Y	8	3	0	0	0	0	8	4
71-14	2	S	5.0000	71	141	Y	5	7	0	0	0	0	5	7
71-14	2	SS	5.0000	71	142	YY	5	6	1	0	0	0	6	6
71-14	2	SS	5.0000	72	143	YY	6	6	0	0	0	0	6	4
71-14	2	SS	5.0000	72	144	YY	7	4	1	0	0	0	7	7
71-14	2	SS	5.0000	73	145	YY	6	7	1	0	0	0	6	7
71-14	2	SS	5.0000	73	146	YY	3	9	0	0	0	0	3	9
71-14	2	SS	5.0000	74	147	YY	8	4	0	0	0	0	8	4
71-14	2	SS	5.0000	74	148	YY	7	5	2	0	0	0	8	5
71-14	2	SS	5.0000	75	149	YY	5	7	0	0	0	0	6	8
71-14	2	SS	5.0000	75	150	YY	6	6	1	0	0	0	6	6
71-14	2	SS	5.0000	76	151	YY	8	3	0	0	0	0	8	5
71-14	2	SS	5.0000	76	152	N	0	0	-0	-0	-0	-0	-0	-0
71-14	2	SS	5.0000	77	153	YY	10	2	0	0	0	0	10	2
71-14	2	SS	5.0000	77	154	YY	5	5	0	0	0	0	5	5
71-14	2	SS	5.0000	78	155	YY	8	4	0	0	0	0	4	4
71-14	2	SS	5.0000	78	156	YY	5	8	0	0	0	0	8	8
71-14	2	SS	5.0000	79	157	YY	3	5	0	0	0	0	5	5
71-14	2	SS	5.0000	79	158	YY	5	9	0	0	0	0	6	6
71-14	2	SS	5.0000	80	159	YY	3	4	0	0	0	0	3	9
71-14	2	SS	5.0000	80	160	Y	8	4	0	0	0	0	0	6

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TEST MATERIAL	WEEK	S/M	DOSE	MALE	FEMALE	PREG.	IMPLANTS		EARLY DEATHS		LATE DEATHS		CORPORAL
				NO.	NO.		L	R	L	R	L	R	LUtea
TEM 14	2	S	.0002	11	21	Y	10	5	0	0	7	3	10
TEM 14	2	S	.0002	11	22	YY	5	8	4	6	0	0	5
TEM 14	2	S	.0002	12	23	YY	6	3	5	5	5	0	9
TEM 14	2	S	.0002	12	24	YY	6	3	0	0	5	2	6
TEM 14	2	S	.0002	13	25	YY	8	4	0	0	4	2	13
TEM 14	2	S	.0002	13	26	YY	2	6	0	0	2	3	9
TEM 14	2	S	.0002	14	27	YY	3	5	0	0	3	6	8
TEM 14	2	S	.0002	14	28	YY	8	5	0	0	3	6	6
TEM 14	2	S	.0002	15	29	YY	5	7	0	0	1	1	5
TEM 14	2	S	.0002	15	30	YY	3	5	0	0	4	2	4
TEM 14	2	S	.0002	16	31	YY	4	2	0	0	2	1	7
TEM 14	2	S	.0002	16	32	YY	4	2	0	0	1	2	3
TEM 14	2	S	.0002	17	33	YY	5	6	0	0	2	3	6
TEM 14	2	S	.0002	17	34	YY	10	3	0	0	9	3	10
TEM 14	2	S	.0002	18	35	YY	6	4	0	0	1	1	4
TEM 14	2	S	.0002	18	36	YY	5	7	0	0	2	0	5
TEM 14	2	S	.0002	19	37	YY	4	9	0	0	4	0	10
TEM 14	2	S	.0002	19	38	YY	1	0	0	0	0	-0	3
TEM 14	2	S	.0002	20	39	NN	-0	-0	-0	-0	-0	-0	-0
TEM 14	2	S	.0002	20	40	NN	-0	-0	-0	-0	-0	-0	-0
CNTRL14	2	M	.1000	1	1	Y	9	5	0	1	0	1	9
CNTRL14	2	MM	.1000	1	2	YY	4	6	0	0	0	0	6
CNTRL14	2	MM	.1000	2	3	YY	6	6	0	0	0	0	6
CNTRL14	2	MM	.1000	2	4	YY	9	5	0	0	0	0	5
CNTRL14	2	MM	.1000	3	5	YY	7	5	0	0	0	0	5
CNTRL14	2	MM	.1000	3	6	YY	3	9	0	0	0	0	0
CNTRL14	2	M	.1000	4	7	YY	6	9	0	0	1	1	6
CNTRL14	2	MM	.1000	4	8	YY	6	9	0	0	0	0	6
CNTRL14	2	M	.1000	5	9	YY	7	6	0	0	0	0	9
CNTRL14	2	M	.1000	5	10	YY	7	6	0	0	0	0	7
CNTRL14	2	M	.1000	6	11	YY	6	7	0	0	0	0	6
CNTRL14	2	M	.1000	6	12	YY	8	3	0	0	2	0	3
CNTRL14	2	M	.1000	7	13	YY	4	8	0	0	0	0	5
CNTRL14	2	M	.1000	7	14	YY	5	5	0	0	0	0	6
CNTRL14	2	M	.1000	8	15	YY	6	7	0	0	0	0	7
CNTRL14	2	M	.1000	8	16	YY	7	7	0	0	0	0	6
CNTRL14	2	M	.1000	9	17	YY	4	5	0	0	0	0	4
CNTRL14	2	M	.1000	9	18	YY	5	6	0	0	0	0	7
CNTRL14	2	M	.1000	10	19	YY	6	6	0	0	0	0	9
CNTRL14	2	M	.1000	10	20	YY	7	6	0	0	0	0	8

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS	EARLY DEATHS		LATE DEATHS		CORPORAL LUTEA		
								L	R	L	R	L	R	
71-14	2	M	.0300	41	81	Y	7	5	0	0	0	0	7	5
71-14	2	M	.0300	41	82	YY	7	6	0	0	0	0	7	6
71-14	2	M	.0300	42	83	YY	4	9	0	0	0	1	4	9
71-14	2	M	.0300	42	84	YY	7	5	5	3	0	0	8	6
71-14	2	M	.0300	43	85	N	-0	-0	-0	-0	-0	-0	-0	-0
71-14	2	M	.0300	43	86	YY	5	6	0	0	1	1	6	7
71-14	2	M	.0300	44	87	YY	4	7	2	5	1	1	5	10
71-14	2	M	.0300	44	88	YY	8	7	0	1	0	0	9	10
71-14	2	M	.0300	45	89	NN	-0	-0	-0	-0	-0	-0	-0	-0
71-14	2	M	.0300	45	90	NN	-0	-0	-0	-0	-0	-0	-0	-0
71-14	2	M	.0300	46	91	YY	4	10	0	0	0	0	5	10
71-14	2	M	.0300	46	92	YY	-0	-0	-0	-0	-0	-0	-0	-0
71-14	2	M	.0300	47	93	YY	3	9	0	1	0	0	5	9
71-14	2	M	.0300	47	94	YY	3	5	0	0	0	0	5	7
71-14	2	M	.0300	48	95	YY	7	6	0	0	0	0	4	6
71-14	2	M	.0300	48	95	YY	7	6	0	0	0	0	7	6
71-14	2	M	.0300	49	97	NY	-0	-0	-0	-0	-0	-0	-0	-0
71-14	2	M	.0300	49	98	YY	9	5	0	0	0	0	9	5
71-14	2	M	.0300	50	99	Y	8	6	0	0	0	0	8	7
71-14	2	M	.0300	50	100	Y	5	7	0	0	0	0	5	8
71-14	2	M	2.5000	51	101	Y	8	6	0	0	1	1	9	6
71-14	2	M	2.5000	51	102	YY	7	5	0	0	0	0	7	5
71-14	2	M	2.5000	52	103	YY	6	5	0	0	0	0	6	5
71-14	2	M	2.5000	52	104	YY	6	7	0	0	0	0	6	7
71-14	2	M	2.5000	53	105	YY	7	6	0	0	0	0	7	6
71-14	2	M	2.5000	53	106	YY	7	6	0	0	0	0	7	7
71-14	2	M	2.5000	54	107	YY	3	9	0	0	0	0	5	11
71-14	2	M	2.5000	54	108	YY	3	10	0	0	1	4	5	11
71-14	2	M	2.5000	55	109	YY	8	5	0	0	3	3	8	5
71-14	2	M	2.5000	55	110	YY	5	8	0	0	0	0	5	9
71-14	2	M	2.5000	56	111	YY	5	7	0	0	0	0	5	8
71-14	2	M	2.5000	56	112	NY	-0	-0	-0	-0	-0	-0	-0	-0
71-14	2	M	2.5000	57	113	YY	8	6	0	0	0	0	8	6
71-14	2	M	2.5000	57	114	YY	6	7	0	0	0	0	6	7
71-14	2	M	2.5000	58	115	YY	5	8	0	0	0	0	5	8
71-14	2	M	2.5000	58	116	YY	3	9	0	1	0	0	5	9
71-14	2	M	2.5000	59	117	YY	8	6	0	0	0	0	5	8
71-14	2	M	2.5000	59	118	YY	5	7	1	0	0	0	5	6
71-14	2	M	2.5000	60	119	YY	5	7	0	0	0	0	5	8
71-14	2	M	2.5000	60	120	Y	3	10	0	0	0	0	3	10

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS		EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
							L	R	L	R	L	R	L	R
71-14	2	M	5.0000	61	121	Y	4	8	0	0	0	1	4	8
71-14	2	M	5.0000	61	122	YY	4	8	0	0	0	0	5	8
71-14	2	M	5.0000	62	123	YN	-0	-0	-0	-0	-0	-0	-0	-0
71-14	2	M	5.0000	62	124	YY	9	2	1	0	0	0	10	2
71-14	2	M	5.0000	63	125	YY	6	7	1	0	0	0	6	7
71-14	2	M	5.0000	63	126	YY	6	7	1	0	0	0	7	8
71-14	2	M	5.0000	64	127	YY	4	7	1	0	0	0	4	9
71-14	2	M	5.0000	64	128	YY	4	11	0	0	0	0	4	11
71-14	2	M	5.0000	65	129	YY	2	8	0	2	0	0	2	9
71-14	2	M	5.0000	65	130	YY	4	5	0	0	0	0	4	6
71-14	2	M	5.0000	66	131	YY	5	8	0	0	0	0	5	8
71-14	2	M	5.0000	66	132	YY	6	10	0	0	1	0	6	10
71-14	2	M	5.0000	67	133	YY	8	5	0	0	0	0	8	6
71-14	2	M	5.0000	67	134	YY	7	8	0	0	0	0	8	8
71-14	2	M	5.0000	68	135	YY	4	9	0	0	0	0	4	10
71-14	2	M	5.0000	68	136	YY	7	5	0	0	0	0	8	6
71-14	2	M	5.0000	69	137	YY	8	6	0	0	0	0	7	8
71-14	2	M	5.0000	69	138	YY	7	4	0	0	0	0	7	4
71-14	2	M	5.0000	70	139	YY	7	6	0	0	0	0	7	7
71-14	2	M	5.0000	70	140	YY	5	9	0	0	0	0	5	9

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS	EARLY DEATHS		LATE DEATHS		CORPORA LUTEA		
								L	R	L	R	L	R	
71-14	3	S	2.5000	61	121	Y	9	8	0	0	0	0	9	8
71-14	3	S	2.5000	61	122	YY	1	10	0	1	0	0	1	10
71-14	3	S	2.5000	62	123	YY	6	5	0	0	0	0	8	6
71-14	3	S	2.5000	62	124	YY	8	6	0	0	0	0	8	7
71-14	3	SS	2.5000	63	125	YY	10	3	1	0	0	0	10	3
71-14	3	SS	2.5000	63	126	YY	6	9	0	0	0	0	6	10
71-14	3	SS	2.5000	64	127	YY	7	6	0	0	3	2	8	6
71-14	3	SS	2.5000	64	128	YY	9	5	0	0	0	0	11	5
71-14	3	SS	2.5000	65	129	YY	4	7	0	0	0	0	4	7
71-14	3	SS	2.5000	65	130	YY	7	5	0	0	0	0	7	5
71-14	3	SS	2.5000	66	131	YY	5	9	0	0	1	0	12	2
71-14	3	SS	2.5000	66	132	YY	12	2	0	0	0	0	5	9
71-14	3	SS	2.5000	67	133	YY	4	9	0	0	0	0	2	10
71-14	3	SS	2.5000	67	134	YY	2	10	0	0	0	1	7	7
71-14	3	SS	2.5000	68	135	YY	7	7	0	0	0	0	9	5
71-14	3	SS	2.5000	68	136	YY	8	4	0	0	0	0	9	6
71-14	3	SS	2.5000	69	137	YY	9	6	0	0	0	0	3	9
71-14	3	SS	2.5000	69	138	YY	3	7	0	0	0	0	4	8
71-14	3	SS	2.5000	70	139	YY	4	8	2	0	0	0	7	8
71-14	3	S	2.5000	70	140	Y	7	8	0	0	0	0	7	8
71-14	3	S	5.0000	71	141	YY	6	6	0	0	2	0	6	6
71-14	3	S	5.0000	71	142	YY	7	9	0	0	1	0	7	9
71-14	3	SS	5.0000	72	143	YY	4	7	0	0	0	0	6	7
71-14	3	SS	5.0000	72	144	YY	7	6	0	0	0	1	7	6
71-14	3	SS	5.0000	73	145	YY	7	5	1	0	0	0	7	5
71-14	3	SS	5.0000	73	146	YY	6	8	0	0	0	0	5	10
71-14	3	SS	5.0000	74	147	YY	4	8	0	0	0	0	5	8
71-14	3	SS	5.0000	74	148	YY	6	9	0	0	1	1	6	9
71-14	3	SS	5.0000	75	149	YY	8	5	0	0	0	0	8	5
71-14	3	SS	5.0000	75	150	YY	7	6	0	0	0	0	8	10
71-14	3	SS	5.0000	76	151	Y	8	6	0	0	1	0	8	6
71-14	3	SS	5.0000	76	152	NY	-0	-0	-0	-0	-0	-0	-0	-0
71-14	3	SS	5.0000	77	153	YY	9	4	0	0	0	0	9	4
71-14	3	SS	5.0000	77	154	YY	5	7	1	0	0	0	5	8
71-14	3	SS	5.0000	78	155	YY	6	0	0	0	0	0	6	6
71-14	3	SS	5.0000	78	156	YY	7	4	0	0	0	0	7	7
71-14	3	S	5.0000	79	157	Y	4	9	0	0	0	0	5	9
71-14	3	S	5.0000	79	158	Y	5	7	0	0	0	1	5	7
71-14	3	S	5.0000	80	159	NY	-0	-0	-0	-0	-0	-0	-0	-0
71-14	3	S	5.0000	80	160	Y	7	6	0	0	0	0	7	6

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS	EARLY DEATHS			LATE DEATHS			CORPORA LUTEA	
								L	R	L	R	L	R	L	R
71-14	3	S	.0300	41	81	Y	8	5	0	0	1	0	8	5	
71-14	3	SS	.0300	41	82	YY	4	5	0	0	0	1	7	6	
71-14	3	SS	.0300	42	83	YY	5	7	2	2	0	1	5	10	
71-14	3	SS	.0300	42	84	YY	7	4	6	3	0	0	5	7	
71-14	3	SS	.0300	43	85	YY	4	6	0	0	0	0	5	7	
71-14	3	SS	.0300	43	86	YY	5	7	1	0	0	0	7	4	
71-14	3	SS	.0300	44	87	YY	7	4	0	0	0	0	8	3	
71-14	3	SS	.0300	44	88	YY	8	3	1	0	0	0	10	11	
71-14	3	SS	.0300	45	89	YY	6	3	0	0	2	0	7	7	
71-14	3	SS	.0300	45	90	YY	7	7	0	0	1	0	7	7	
71-14	3	SS	.0300	46	91	YY	3	11	0	0	1	0	3	11	
71-14	3	SS	.0300	46	92	YY	7	7	0	0	0	0	7	7	
71-14	3	SS	.0300	47	93	YY	3	4	1	0	0	0	4	7	
71-14	3	SS	.0300	47	94	YY	7	5	0	0	0	0	7	5	
71-14	3	SS	.0300	48	95	YY	7	6	0	0	0	0	7	6	
71-14	3	SS	.0300	48	96	YY	2	3	0	0	0	0	4	4	
71-14	3	SS	.0300	49	97	YY	9	7	0	0	0	0	9	5	
71-14	3	SS	.0300	49	98	YY	5	6	0	0	0	0	6	6	
71-14	3	SS	.0300	50	99	YY	6	6	0	0	0	0	7	6	
71-14	3	S	.0300	50	100	Y	7	7	0	0	0	0	8	8	
71-14	3	M	2.5000	51	101	Y	3	7	0	0	0	0	3	7	
71-14	3	M	2.5000	51	102	YY	8	5	0	0	0	0	8	6	
71-14	3	M	2.5000	52	103	YY	0	3	0	0	0	0	5	6	
71-14	3	M	2.5000	52	104	YY	6	8	0	0	0	0	3	8	
71-14	3	M	2.5000	53	105	YY	10	4	0	0	0	0	4	7	
71-14	3	M	2.5000	53	106	YY	4	6	0	0	0	0	10	10	
71-14	3	M	2.5000	54	107	YY	3	3	0	0	0	0	3	3	
71-14	3	M	2.5000	54	108	YY	10	8	0	0	0	0	11	8	
71-14	3	M	2.5000	55	109	YY	3	5	7	7	0	0	5	5	
71-14	3	M	2.5000	55	110	YY	7	8	0	0	0	0	8	8	
71-14	3	M	2.5000	56	111	YY	2	2	0	0	0	0	7	7	
71-14	3	M	2.5000	56	112	YY	5	6	0	0	0	0	5	5	
71-14	3	M	2.5000	57	113	YY	8	8	0	0	0	0	3	6	
71-14	3	M	2.5000	57	114	YY	5	9	0	0	0	0	5	5	
71-14	3	M	2.5000	58	115	YY	5	9	0	0	0	0	0	0	
71-14	3	M	2.5000	58	116	YY	6	6	0	0	0	0	1	0	
71-14	3	M	2.5000	59	117	YY	3	7	0	0	0	0	1	0	
71-14	3	M	2.5000	59	118	YY	6	4	0	0	0	0	0	0	
71-14	3	M	2.5000	60	119	YY	6	4	0	0	0	0	1	0	
71-14	3	M	2.5000	60	120	YY	10	5	0	0	0	0	0	0	

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS		EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
							L	R	L	R	L	R	L	R
71-14	3	M	5.0000	61	121	Y	9	3	0	0	0	0	9	3
71-14	3	M	5.0000	61	122	YY	4	3	0	0	0	0	11	3
71-14	3	M	5.0000	62	123	YY	3	2	1	0	0	0	9	4
71-14	3	M	5.0000	62	124	YY	4	8	0	0	0	0	4	9
71-14	3	M	5.0000	63	125	YY	8	5	0	0	0	0	8	6
71-14	3	M	5.0000	63	126	YY	8	5	0	0	0	1	8	6
71-14	3	M	5.0000	64	127	YY	7	8	2	0	0	1	7	8
71-14	3	M	5.0000	64	128	YY	4	6	0	0	0	0	4	8
71-14	3	M	5.0000	65	129	YY	4	8	0	0	0	0	4	8
71-14	3	M	5.0000	65	130	YY	5	8	0	0	0	0	6	8
71-14	3	M	5.0000	66	131	YY	6	10	0	0	1	0	6	10
71-14	3	M	5.0000	66	132	YY	8	4	0	0	0	2	8	5
71-14	3	M	5.0000	67	133	YY	7	7	0	0	0	1	8	7
71-14	3	M	5.0000	67	134	YY	10	7	1	0	0	0	10	7
71-14	3	M	5.0000	68	135	YY	3	7	0	0	2	0	3	9
71-14	3	M	5.0000	68	136	YY	4	9	0	0	1	0	4	10
71-14	3	M	5.0000	69	137	YY	0	6	0	0	0	0	6	6
71-14	3	M	5.0000	69	138	YY	3	11	0	0	0	1	3	11
71-14	3	M	5.0000	70	139	YY	5	9	0	0	0	0	6	9
71-14	3	M	5.0000	70	140	Y	5	4	0	0	0	0	7	4

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS	EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
								L	R	L	R	L	R
CNTRL14	4	S	1.0000	1	1	Y	8	8	0	0	0	0	8 8
CNTRL14	4	S	1.0000	1	2	YY	8	5	0	0	0	1	8 5
CNTRL14	4	S	1.0000	2	3	YY	6	7	0	0	0	0	6 7
CNTRL14	4	S	1.0000	2	4	YY	3	9	0	1	0	0	3 9
CNTRL14	4	S	1.0000	3	5	YY	5	7	0	0	2	0	5 7 7
CNTRL14	4	S	1.0000	3	6	YY	7	7	0	0	0	1	7 7 7
CNTRL14	4	S	1.0000	4	7	YY	4	8	0	0	0	0	4 5 8 7
CNTRL14	4	S	1.0000	4	8	YY	5	7	1	0	0	0	5 5 7 7
CNTRL14	4	S	1.0000	5	9	YY	3	11	0	0	0	1	3 11
CNTRL14	4	S	1.0000	5	10	YY	10	5	0	0	0	0	10 5
CNTRL14	4	S	1.0000	6	11	YY	7	5	0	0	0	0	7 6
CNTRL14	4	S	1.0000	6	12	YY	5	7	0	0	0	0	5 8
CNTRL14	4	S	1.0000	7	13	YY	8	6	0	0	0	0	8 6
CNTRL14	4	S	1.0000	7	14	YY	9	3	0	0	0	0	9 3 3
CNTRL14	4	S	1.0000	8	15	YY	12	3	1	0	0	0	12 3
CNTRL14	4	S	1.0000	8	16	YY	5	3	0	0	0	0	7 8
CNTRL14	4	S	1.0000	9	17	YY	6	5	0	0	0	0	8 5
CNTRL14	4	S	1.0000	9	18	YY	7	6	0	0	0	0	7 7
CNTRL14	4	S	1.0000	10	19	YY	8	3	0	0	1	0	8 3
CNTRL14	4	S	1.0000	10	20	Y							
71-14	4	S	.0300	51	101	YY	7	5	0	0	0	0	7 5
71-14	4	S	.0300	51	102	YY	3	6	0	0	0	0	4 9
71-14	4	S	.0300	52	103	YY	10	5	0	0	0	1	0 5
71-14	4	S	.0300	52	104	YY	6	8	0	0	0	0	6 9
71-14	4	S	.0300	53	105	YY	4	7	0	0	0	0	5 8
71-14	4	S	.0300	53	106	YY	4	3	0	0	0	1	5 9
71-14	4	S	.0300	54	107	YY	5	7	0	0	0	0	6 8
71-14	4	S	.0300	54	108	YY	6	6	0	0	0	1	7 9
71-14	4	S	.0300	55	109	YY	7	6	0	0	0	1	7 7
71-14	4	S	.0300	55	110	YY	5	7	0	0	0	0	5 7
71-14	4	S	.0300	56	111	YY	7	9	1	0	0	0	7 9
71-14	4	S	.0300	56	112	YY	9	6	0	0	0	0	6 5
71-14	4	S	.0300	57	113	YY	10	5	2	0	0	0	10 5
71-14	4	S	.0300	57	114	YY	5	5	0	0	0	0	6 7
71-14	4	S	.0300	58	115	YY	4	9	1	1	0	0	5 9
71-14	4	S	.0300	58	116	YY	3	8	1	0	0	0	4 9
71-14	4	S	.0300	59	117	YY	6	8	0	2	0	3	5 8
71-14	4	S	.0300	59	118	YY	0	1	0	0	0	1	10 8
71-14	4	S	.0300	60	119	YY	10	6	1	0	0	0	10 6
71-14	4	S	.0300	60	120	Y							

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	FREG.	IMPLANTS	EARLY		LATE		CORPORA LUTEA		
								L	R	L	R	L	R	
71-14	4	S	2.5000	61	121	Y	7	6	0	0	0	0	7	6
71-14	4	S	2.5000	61	122	YY	7	6	0	0	0	0	7	6
71-14	4	S	2.5000	62	123	Y	8	7	0	0	0	0	8	7
71-14	4	S	2.5000	62	124	YY	6	8	0	0	0	1	6	8
71-14	4	S	2.5000	63	125	Y	8	4	0	0	0	0	8	4
71-14	4	S	2.5000	63	126	YY	6	6	0	0	0	0	6	6
71-14	4	S	2.5000	64	127	Y	4	7	0	0	0	0	5	7
71-14	4	S	2.5000	64	128	YY	8	5	0	0	0	0	8	5
71-14	4	S	2.5000	65	129	Y	3	7	1	0	0	0	3	10
71-14	4	S	2.5000	65	130	YY	9	2	0	0	0	0	9	2
71-14	4	S	2.5000	66	131	Y	5	7	1	0	1	1	5	7
71-14	4	S	2.5000	66	132	YY	6	5	0	0	0	0	6	5
71-14	4	S	2.5000	67	133	Y	3	11	0	0	0	0	3	11
71-14	4	S	2.5000	67	134	YY	8	3	1	0	1	0	9	5
71-14	4	S	2.5000	68	135	Y	8	5	0	0	0	0	8	5
71-14	4	S	2.5000	68	136	YY	7	5	0	0	0	0	7	5
71-14	4	S	2.5000	69	137	Y	6	6	0	0	0	0	6	6
71-14	4	S	2.5000	69	138	YY	4	9	0	0	0	0	4	9
71-14	4	S	2.5000	70	139	Y	6	10	1	0	0	0	7	10
71-14	4	S	2.5000	70	140	YY	7	8	0	1	0	0	7	8
71-14	4	S	5.0000	81	141	Y	9	2	0	0	0	0	9	3
71-14	4	S	5.0000	81	142	YY	3	9	0	0	0	0	3	9
71-14	4	S	5.0000	82	143	Y	12	3	0	0	0	0	12	3
71-14	4	S	5.0000	82	144	YY	6	6	0	0	0	0	7	6
71-14	4	S	5.0000	83	145	Y	7	6	0	0	1	0	7	6
71-14	4	S	5.0000	83	146	YY	4	11	0	1	3	3	4	11
71-14	4	S	5.0000	84	147	Y	8	7	1	0	0	0	8	7
71-14	4	S	5.0000	84	148	YY	1	11	0	0	0	0	1	11
71-14	4	S	5.0000	85	149	Y	7	7	0	0	0	0	7	7
71-14	4	S	5.0000	85	150	YY	5	7	0	0	0	0	5	9
71-14	4	S	5.0000	86	151	Y	11	6	0	0	0	0	11	6
71-14	4	S	5.0000	86	152	YY	6	6	0	0	0	0	6	6
71-14	4	S	5.0000	87	153	Y	6	7	1	1	0	0	6	7
71-14	4	S	5.0000	87	153	YY	6	8	0	1	1	0	6	8
71-14	4	S	5.0000	87	154	Y	6	8	0	0	0	0	6	8
71-14	4	S	5.0000	88	155	YY	6	7	0	0	0	0	6	7
71-14	4	S	5.0000	88	156	Y	6	7	0	0	0	0	6	7
71-14	4	S	5.0000	89	157	Y	6	7	0	0	0	0	6	7
71-14	4	S	5.0000	89	158	YY	4	7	0	0	0	0	4	8
71-14	4	S	5.0000	80	159	Y	8	5	0	0	0	0	8	5
71-14	4	S	5.0000	80	160	Y	6	9	0	1	0	0	6	10

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS		EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
							L	R	L	R	L	R	L	R
TEM 14	4	S	.0002	11	21	Y	2	7	0	0	2	3	2	8
TEM 14	4	S	.0002	11	22	YY	3	4	2	4	0	0	5	5
TEM 14	4	S	.0002	12	23	YY	2	4	2	4	0	0	3	7
TEM 14	4	S	.0002	12	24	YY	2	1	2	1	0	0	5	7
TEM 14	4	S	.0002	13	25	YY	6	4	6	4	0	0	8	4
TEM 14	4	S	.0002	13	26	YY	5	7	4	6	0	0	5	10
TEM 14	4	S	.0002	14	27	YY	2	2	2	2	0	0	4	6
TEM 14	4	S	.0002	14	28	YY	3	4	3	0	0	0	3	11
TEM 14	4	S	.0002	15	29	YY	2	2	0	0	0	0	8	5
TEM 14	4	S	.0002	15	30	YY	2	1	4	0	0	0	5	2
TEM 14	4	S	.0002	16	31	YY	1	0	1	1	0	0	8	4
TEM 14	4	S	.0002	16	32	YY	1	0	0	0	0	0	8	4
TEM 14	4	S	.0002	17	33	YY	2	2	2	2	0	0	3	8
TEM 14	4	S	.0002	17	34	YY	6	6	5	5	0	0	7	3
TEM 14	4	S	.0002	18	35	YY	3	5	3	3	0	0	4	7
TEM 14	4	S	.0002	18	36	YY	7	2	7	2	0	0	6	6
TEM 14	4	S	.0002	19	37	YY	1	1	1	1	0	0	8	3
TEM 14	4	S	.0002	19	38	YY	1	1	1	1	0	0	9	5
TEM 14	4	S	.0002	20	39	YY	0	2	0	2	0	0	3	9
TEM 14	4	S	.0002	20	40	Y	0	2	0	2	0	0	0	9
CNTRL14	4	M	1.0000	1	1	Y	8	8	0	0	0	0	8	8
CNTRL14	4	M	1.0000	1	2	YY	8	5	0	0	0	0	8	5
CNTRL14	4	M	1.0000	2	3	YY	6	7	0	0	0	0	6	7
CNTRL14	4	M	1.0000	2	4	YY	3	9	0	0	1	0	3	9
CNTRL14	4	M	1.0000	3	5	YY	5	7	0	0	2	0	5	7
CNTRL14	4	M	1.0000	3	6	YY	7	7	0	0	1	0	7	7
CNTRL14	4	M	1.0000	4	7	YY	7	6	0	0	0	0	4	8
CNTRL14	4	M	1.0000	4	8	YY	4	8	0	0	0	0	5	7
CNTRL14	4	M	1.0000	5	9	YY	5	7	1	0	0	0	3	11
CNTRL14	4	M	1.0000	5	10	YY	3	11	0	0	0	0	10	5
CNTRL14	4	M	1.0000	6	11	YY	10	5	0	0	0	0	6	8
CNTRL14	4	M	1.0000	6	12	YY	7	5	0	0	0	0	7	8
CNTRL14	4	M	1.0000	7	13	YY	5	7	0	0	0	0	9	6
CNTRL14	4	M	1.0000	7	14	YY	8	6	0	0	1	0	9	3
CNTRL14	4	M	1.0000	8	15	YY	9	3	0	0	0	0	12	3
CNTRL14	4	M	1.0000	8	16	YY	12	3	1	0	0	0	7	8
CNTRL14	4	M	1.0000	9	17	YY	5	3	0	0	0	0	8	5
CNTRL14	4	M	1.0000	9	18	YY	6	5	0	0	0	0	7	7
CNTRL14	4	M	1.0000	10	19	YY	7	6	0	0	1	0	0	3
CNTRL14	4	M	1.0000	10	20	Y	8	3	0	0	0	0	0	8

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS				EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
							L	R	L	R	L	R	L	R	L	R
71-14	4	M	.0300	41	81	Y	6	8	0	0	0	0	6	8	8	7
71-14	4	M	.0300	41	82	Y	8	7	0	0	0	0	7	10	9	10
71-14	4	M	.0300	42	83	Y	5	10	3	4	0	0	5	6	5	6
71-14	4	M	.0300	42	84	Y	5	9	2	7	1	0	7	6	5	6
71-14	4	M	.0300	43	85	Y	7	5	0	0	1	0	6	8	7	10
71-14	4	M	.0300	43	86	Y	6	6	0	0	0	0	6	7	6	7
71-14	4	M	.0300	44	87	Y	8	9	0	0	0	0	4	6	6	7
71-14	4	M	.0300	44	88	Y	5	7	0	0	0	0	9	5	5	5
71-14	4	M	.0300	45	89	Y	4	6	0	0	0	0	9	5	5	5
71-14	4	M	.0300	45	90	Y	9	4	0	0	0	0	7	5	5	5
71-14	4	M	.0300	46	91	Y	5	5	0	0	2	0	6	6	9	9
71-14	4	M	.0300	46	92	Y	5	8	0	0	0	0	5	2	10	10
71-14	4	M	.0300	47	93	Y	5	5	10	1	3	0	1	0	0	0
71-14	4	M	.0300	47	94	Y	2	10	0	1	0	0	2	5	5	7
71-14	4	M	.0300	48	95	Y	5	6	0	0	0	0	5	5	5	9
71-14	4	M	.0300	48	96	Y	5	9	0	0	0	0	7	4	7	4
71-14	4	M	.0300	49	97	Y	7	4	0	0	0	0	6	6	7	7
71-14	4	M	.0300	49	98	Y	6	7	0	0	0	0	5	5	6	6
71-14	4	M	.0300	50	99	Y	5	6	0	0	0	0	4	4	4	10
71-14	4	M	.0300	50	100	Y	4	10	0	0	0	0	8	3	3	3
71-14	4	M	2.5000	51	101	Y	8	3	0	0	0	0	5	9	7	7
71-14	4	M	2.5000	51	102	Y	5	7	0	0	0	0	9	6	8	8
71-14	4	M	2.5000	52	103	Y	9	8	0	0	0	0	7	6	8	8
71-14	4	M	2.5000	52	104	Y	6	4	1	0	0	0	6	5	5	10
71-14	4	M	2.5000	53	105	Y	6	4	0	0	0	0	3	8	8	8
71-14	4	M	2.5000	53	106	Y	3	9	0	0	0	0	3	8	8	10
71-14	4	M	2.5000	54	107	Y	7	8	0	1	0	0	9	4	4	5
71-14	4	M	2.5000	54	108	Y	9	5	0	0	0	0	9	4	4	5
71-14	4	M	2.5000	55	109	Y	4	8	0	1	0	0	4	4	4	4
71-14	4	M	2.5000	55	110	Y	4	9	0	0	0	0	6	6	4	4
71-14	4	M	2.5000	56	111	Y	4	4	0	0	0	0	6	6	7	7
71-14	4	M	2.5000	56	112	Y	5	10	0	0	1	0	7	7	7	7
71-14	4	M	2.5000	57	113	Y	7	8	0	0	1	0	3	3	3	3
71-14	4	M	2.5000	57	114	Y	7	5	0	0	0	0	7	7	8	8
71-14	4	M	2.5000	58	115	Y	7	8	0	0	0	0	2	2	2	2
71-14	4	M	2.5000	58	116	Y	5	8	0	0	0	0	8	8	8	7
71-14	4	M	2.5000	59	117	Y	8	7	0	0	0	0	1	1	1	6
71-14	4	M	2.5000	59	118	Y	8	6	0	0	0	0	2	2	2	11
71-14	4	M	2.5000	60	119	Y	2	10	0	0	0	0	0	0	0	0
71-14	4	M	2.5000	60	120	Y	5	6	0	0	0	0	6	6	7	7

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LOCUST BEAN GUM

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS		EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
							L	R	L	R	L	R	L	R
71-14	4	M	5.0000	61	121	Y	9	5	0	0	0	2	9	5
71-14	4	M	5.0000	61	122	YY	6	6	0	0	0	0	6	6
71-14	4	M	5.0000	62	123	YY	7	6	0	0	0	0	7	6
71-14	4	M	5.0000	62	124	YY	2	7	0	0	0	1	3	7
71-14	4	M	5.0000	63	125	YY	6	5	0	0	0	0	6	5
71-14	4	M	5.0000	63	126	YY	5	7	0	0	0	0	5	8
71-14	4	M	5.0000	64	127	YY	4	6	0	0	0	0	4	8
71-14	4	M	5.0000	64	128	YY	7	8	0	0	0	0	7	8
71-14	4	M	5.0000	65	129	YY	7	7	0	0	0	1	7	7
71-14	4	M	5.0000	65	130	YY	7	4	0	0	0	3	8	4
71-14	4	M	5.0000	66	131	YY	5	9	0	0	1	1	5	9
71-14	4	M	5.0000	66	132	YY	6	7	0	0	0	0	7	7
71-14	4	M	5.0000	67	133	YY	8	3	0	0	0	0	8	3
71-14	4	M	5.0000	67	134	YY	5	9	0	0	0	2	5	9
71-14	4	M	5.0000	68	135	YY	5	7	0	0	0	0	6	7
71-14	4	M	5.0000	68	136	YY	7	6	0	0	0	0	7	6
71-14	4	M	5.0000	69	137	YY	8	5	0	0	0	0	7	5
71-14	4	M	5.0000	69	138	YY	6	5	0	0	0	1	6	5
71-14	4	M	5.0000	70	139	YY	5	8	0	0	1	0	0	6
71-14	4	M	5.0000	70	140	Y	7	6	0	0	0	0	7	6

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS	EARLY DEATHS		LATE DEATHS		CORPORA LUTEA		
								L	R	L	R	L	R	
CNTRL14	5	S	0.0000	1	1	Y	7	5	0	0	0	0	7	5
CNTRL14	5	SS	0.0000	1	2	YY	7	3	0	0	1	0	8	3
CNTRL14	5	SS	0.0000	2	3	YY	5	3	0	0	0	0	9	5
CNTRL14	5	SS	0.0000	2	4	YY	9	5	0	0	0	0	6	6
CNTRL14	5	SS	0.0000	3	5	YY	6	5	0	0	1	0	6	6
CNTRL14	5	SS	0.0000	3	6	YY	5	5	2	0	0	0	3	11
CNTRL14	5	SS	0.0000	4	7	YY	3	7	0	0	2	2	9	7
CNTRL14	5	SS	0.0000	4	8	YY	9	7	0	0	0	0	8	8
CNTRL14	5	SS	0.0000	5	9	YY	5	7	0	0	0	1	6	8
CNTRL14	5	SS	0.0000	5	10	YY	6	8	2	0	0	0	6	6
CNTRL14	5	SS	0.0000	6	11	YY	6	6	0	0	0	0	4	8
CNTRL14	5	SS	0.0000	6	12	YY	4	8	0	0	0	0	2	10
CNTRL14	5	SS	0.0000	7	13	YY	2	8	0	0	0	0	6	10
CNTRL14	5	SS	0.0000	7	14	YY	6	6	10	1	0	0	5	9
CNTRL14	5	SS	0.0000	8	15	YY	8	8	3	5	1	1	9	8
CNTRL14	5	SS	0.0000	8	16	YY	5	8	0	0	0	0	6	6
CNTRL14	5	SS	0.0000	9	17	YY	6	6	0	0	0	0	5	9
CNTRL14	5	SS	0.0000	9	18	YY	5	5	1	0	0	0	8	6
CNTRL14	5	SS	0.0000	10	19	YY	8	4	1	0	1	0	4	4
CNTRL14	5	S	0.0000	10	20	Y	8	4	1	0	0	0	6	7
71-14	5	S	.0300	51	101	Y	6	7	0	0	0	0	5	8
71-14	5	SS	.0300	51	102	YY	7	4	0	0	0	0	7	5
71-14	5	SS	.0300	52	103	YY	5	8	2	0	0	1	4	10
71-14	5	SS	.0300	52	104	YY	4	1	0	0	0	0	8	8
71-14	5	SS	.0300	53	105	YY	2	1	0	0	0	0	6	5
71-14	5	SS	.0300	53	106	YY	5	1	0	0	0	0	7	7
71-14	5	SS	.0300	54	107	YY	7	7	0	0	0	0	8	6
71-14	5	SS	.0300	54	108	YY	8	6	0	0	0	0	7	6
71-14	5	SS	.0300	55	109	YY	5	7	0	0	0	0	5	7
71-14	5	SS	.0300	55	110	YY	6	7	0	0	0	0	6	6
71-14	5	SS	.0300	56	111	YY	5	6	0	0	1	1	6	6
71-14	5	SS	.0300	56	112	YY	5	8	0	0	0	0	8	4
71-14	5	SS	.0300	57	113	YY	6	8	1	1	0	0	3	3
71-14	5	SS	.0300	57	114	YY	7	4	0	0	2	0	4	6
71-14	5	SS	.0300	58	115	YY	3	2	1	0	0	0	6	6
71-14	5	SS	.0300	58	116	YY	6	6	0	0	0	0	6	6
71-14	5	SS	.0300	59	117	YY	4	5	0	0	0	0	9	6
71-14	5	SS	.0300	59	118	YY	2	4	1	0	0	0	6	6
71-14	5	SS	.0300	60	119	YY	6	6	0	0	0	0	6	6
71-14	5	SS	.0300	60	120	YY	4	5	0	0	0	0	6	6

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS		EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
							L	R	L	R	L	R	L	R
71-14	5	S	2.5000	61	121	Y	8	6	0	0	0	0	8	6
71-14	5	S	2.5000	61	122	YY	5	6	0	1	0	0	5	6
71-14	5	S	2.5000	62	123	YY	4	9	0	0	0	0	4	9
71-14	5	S	2.5000	62	124	YY	8	4	0	0	0	0	6	6
71-14	5	S	2.5000	63	125	YY	7	6	0	0	1	0	6	9
71-14	5	S	2.5000	63	126	YY	6	8	0	0	0	0	5	2
71-14	5	S	2.5000	64	127	YY	4	5	11	0	1	0	5	7
71-14	5	S	2.5000	64	128	YY	2	7	0	0	0	0	5	6
71-14	5	S	2.5000	65	129	YY	5	9	0	0	0	0	7	7
71-14	5	S	2.5000	65	130	YY	7	6	0	0	0	0	6	6
71-14	5	S	2.5000	66	131	YY	8	6	0	0	0	0	7	10
71-14	5	S	2.5000	66	132	YY	7	10	0	0	1	0	3	10
71-14	5	S	2.5000	67	133	YY	3	5	0	0	0	0	2	0
71-14	5	S	2.5000	67	134	YY	5	7	0	0	0	0	5	7
71-14	5	S	2.5000	68	135	YY	3	10	0	0	0	0	3	10
71-14	5	S	2.5000	68	136	YY	7	5	0	0	0	0	7	5
71-14	5	S	2.5000	69	137	YY	5	7	0	0	0	0	5	7
71-14	5	S	2.5000	69	138	YY	5	7	0	0	0	0	5	6
71-14	5	S	2.5000	70	139	YY	7	9	0	0	0	0	7	9
71-14	5	S	2.5000	70	140	Y	9	6	0	0	0	0	0	0
71-14	5	S	5.0000	81	141	Y	7	5	0	0	0	0	7	5
71-14	5	S	5.0000	81	142	YY	5	6	0	1	0	0	6	6
71-14	5	S	5.0000	82	143	YY	5	0	1	0	0	0	7	3
71-14	5	S	5.0000	82	144	YY	7	6	0	0	0	0	8	6
71-14	5	S	5.0000	83	145	YY	7	4	0	0	0	0	4	8
71-14	5	S	5.0000	83	146	YY	4	2	11	0	0	0	2	11
71-14	5	S	5.0000	84	147	YY	6	8	0	0	0	0	6	6
71-14	5	S	5.0000	84	148	YY	6	6	0	1	0	0	6	6
71-14	5	S	5.0000	85	149	YY	7	7	0	0	0	0	7	7
71-14	5	S	5.0000	85	150	YY	7	4	8	1	0	0	4	8
71-14	5	S	5.0000	86	151	YY	6	6	0	1	0	0	6	6
71-14	5	S	5.0000	86	152	YY	6	6	0	0	1	0	7	7
71-14	5	S	5.0000	87	153	YY	7	7	0	0	0	1	5	9
71-14	5	S	5.0000	87	154	YY	5	9	0	0	0	0	5	7
71-14	5	S	5.0000	88	155	YY	7	9	0	0	0	0	7	9
71-14	5	S	5.0000	88	156	YY	9	5	0	0	0	0	6	5
71-14	5	S	5.0000	89	157	YY	6	6	0	0	0	0	6	6
71-14	5	S	5.0000	89	158	YY	6	7	0	0	0	0	7	8
71-14	5	S	5.0000	90	159	YY	7	7	0	0	0	0	7	7
71-14	5	S	5.0000	90	160	YY	2	10	0	0	0	0	3	10

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS				EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
							L	R	L	R	L	R	L	R	L	R
TEM 14	5	S	.0002	11	21	Y	5	8	0	0	0	0	5	8		
TEM 14	5	S	.0002	11	22	YY	7	5	2	1	0	0	7	5		
TEM 14	5	S	.0002	12	23	YY	6	5	3	1	0	0	7	5		
TEM 14	5	S	.0002	12	24	YY	4	7	0	0	0	0	4	7		
TEM 14	5	S	.0002	13	25	YY	7	4	0	0	0	0	7	4	9	
TEM 14	5	S	.0002	13	26	YY	2	9	0	0	0	0	4	6	5	6
TEM 14	5	S	.0002	14	27	YY	3	4	1	3	0	0	5	6	5	4
TEM 14	5	S	.0002	14	28	YY	6	5	1	0	0	0	6	6	5	4
TEM 14	5	S	.0002	15	29	YY	8	4	0	0	0	0	8	7	5	5
TEM 14	5	S	.0002	15	30	YY	7	4	3	2	1	0	9	8	5	4
TEM 14	5	S	.0002	16	31	YY	9	5	2	1	0	0	5	6	5	4
TEM 14	5	S	.0002	16	32	YY	8	4	4	2	2	0	8	7	7	7
TEM 14	5	S	.0002	17	33	YY	4	9	2	0	0	0	5	6	5	7
TEM 14	5	S	.0002	17	34	YY	6	9	0	0	0	0	6	7	7	7
TEM 14	5	S	.0002	18	35	YY	5	7	0	0	0	0	7	7	8	8
TEM 14	5	S	.0002	18	36	YY	7	7	0	0	0	0	6	8	8	8
TEM 14	5	S	.0002	19	37	YY	6	8	1	2	0	0	8	8	8	8
TEM 14	5	S	.0002	19	38	YY	3	8	0	0	0	0	8	4	4	4
TEM 14	5	S	.0002	20	39	YY	5	4	1	0	1	0	8	8	8	8
TEM 14	5	S	.0002	20	40	Y	8	2	0	1	0	0				
CNTRL14	5	M	0.0000	1	1	YY	7	5	0	0	0	0	7	5		
CNTRL14	5	M	0.0000	1	2	YY	7	3	0	0	0	0	8	3	3	
CNTRL14	5	M	0.0000	2	3	YY	5	9	0	0	0	0	6	9	8	
CNTRL14	5	M	0.0000	2	4	YY	6	5	0	0	0	0	6	6	6	
CNTRL14	5	M	0.0000	3	5	YY	5	5	2	0	0	0	3	6	6	
CNTRL14	5	M	0.0000	3	6	YY	3	3	0	0	0	0	9	7	7	
CNTRL14	5	M	0.0000	4	7	YY	9	7	0	0	0	0	5	6	6	
CNTRL14	5	M	0.0000	4	8	YY	5	7	0	0	0	0	6	6	6	
CNTRL14	5	M	0.0000	5	9	YY	6	8	2	0	0	0	6	6	6	
CNTRL14	5	M	0.0000	5	10	YY	6	6	0	0	0	0	6	6	6	
CNTRL14	5	M	0.0000	6	11	YY	4	8	0	0	0	0	6	6	6	
CNTRL14	5	M	0.0000	6	12	YY	2	8	0	0	0	0	6	6	6	
CNTRL14	5	M	0.0000	7	13	YY	6	8	0	0	0	0	6	6	6	
CNTRL14	5	M	0.0000	7	14	YY	2	8	1	0	0	0	10	9	8	
CNTRL14	5	M	0.0000	8	15	YY	6	8	0	0	0	0	5	6	6	
CNTRL14	5	M	0.0000	8	16	YY	5	5	3	0	0	0	5	5	5	
CNTRL14	5	M	0.0000	9	17	YY	6	9	0	0	0	0	6	6	6	
CNTRL14	5	M	0.0000	9	18	YY	8	8	1	0	0	0	9	8	6	
CNTRL14	5	M	0.0000	10	19	YY	8	8	0	0	0	0	8	8	6	
CNTRL14	5	M	0.0000	10	20	YY	8	4	1	0	0	0	0	0	4	

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS	EARLY DEATHS		LATE DEATHS		CORPORA LUTEA		
								L	R	L	R	L	R	
71-14	5	M	.0300	41	81	Y	10	5	0	0	2	1	10	5
71-14	5	M	.0300	41	82	YY	3	8	0	0	0	1	4	8
71-14	5	M	.0300	42	83	YY	4	8	0	1	0	0	4	9
71-14	5	M	.0300	42	84	YY	6	6	4	0	0	0	6	7
71-14	5	M	.0300	43	85	YY	6	6	0	0	0	1	6	6
71-14	5	M	.0300	43	86	YY	6	6	0	0	0	0	7	6
71-14	5	M	.0300	44	87	N	-0	-0	-0	-0	-0	-0	-0	-0
71-14	5	M	.0300	44	88	NY	-0	-0	-0	-0	-0	-0	-0	-0
71-14	5	M	.0300	45	89	YY	9	6	0	0	0	0	9	6
71-14	5	M	.0300	45	90	YY	8	5	0	0	0	0	8	5
71-14	5	M	.0300	46	91	YY	6	9	0	0	0	0	6	9
71-14	5	M	.0300	46	92	YY	6	7	1	0	0	0	6	7
71-14	5	M	.0300	47	93	YY	6	9	0	0	0	0	7	10
71-14	5	M	.0300	47	94	YY	7	6	1	0	0	0	7	6
71-14	5	M	.0300	48	95	YY	6	5	0	0	0	0	7	8
71-14	5	M	.0300	48	96	YY	7	6	1	0	0	0	5	9
71-14	5	M	.0300	49	97	YY	4	4	0	0	0	0	7	7
71-14	5	M	.0300	49	98	YY	7	7	3	7	0	0	8	7
71-14	5	M	.0300	50	99	YY	7	7	1	1	0	0	6	8
71-14	5	M	.0300	50	100	Y	6	7	0	1	0	0	8	8
71-14	5	M	2.5000	51	101	YY	8	8	0	1	0	0	9	8
71-14	5	M	2.5000	51	102	YY	8	3	0	0	0	0	5	3
71-14	5	M	2.5000	52	103	YY	4	11	0	0	0	0	2	11
71-14	5	M	2.5000	52	104	YY	2	11	0	0	0	0	7	7
71-14	5	M	2.5000	53	105	YY	7	5	0	0	0	0	5	8
71-14	5	M	2.5000	53	106	YY	5	7	0	0	0	0	6	10
71-14	5	M	2.5000	54	107	YY	6	10	0	0	0	0	8	9
71-14	5	M	2.5000	54	108	YY	8	4	0	0	0	0	5	4
71-14	5	M	2.5000	55	109	YY	5	8	0	0	0	0	7	7
71-14	5	M	2.5000	55	110	YY	6	7	0	0	0	0	4	5
71-14	5	M	2.5000	56	111	YY	0	4	0	0	4	0	0	12
71-14	5	M	2.5000	56	112	YY	0	11	0	0	1	0	6	7
71-14	5	M	2.5000	57	113	YY	5	6	0	0	0	0	7	9
71-14	5	M	2.5000	57	114	YY	7	8	0	0	0	0	5	8
71-14	5	M	2.5000	58	115	YY	5	8	0	0	1	0	4	11
71-14	5	M	2.5000	58	116	YY	4	10	0	0	0	0	10	3
71-14	5	M	2.5000	59	117	YY	10	3	0	2	0	0	7	4
71-14	5	M	2.5000	59	118	YY	7	4	0	0	0	0	2	11
71-14	5	M	2.5000	60	119	YY	2	10	0	0	0	0	7	5
71-14	5	M	2.5000	60	120	Y	7	5	0	0	0	0	0	0

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS		EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
							L	R	L	R	L	R	L	R
CNTRL14	6	S	0.0000	1	1	Y	7	6	0	0	0	0	8	6
CNTRL14	6	S	0.0000	1	2	YY	8	8	0	0	0	0	8	8
CNTRL14	6	S	0.0000	2	3	YY	5	9	0	0	1	0	5	10
CNTRL14	6	S	0.0000	2	4	YY	6	9	0	0	1	3	6	9
CNTRL14	6	S	0.0000	3	5	YY	8	5	0	0	0	0	8	5
CNTRL14	6	S	0.0000	3	6	YY	6	9	0	0	0	0	6	10
CNTRL14	6	S	0.0000	4	7	YY	3	11	0	0	0	0	3	11
CNTRL14	6	S	0.0000	4	8	YY	5	7	0	0	0	0	6	8
CNTRL14	6	S	0.0000	5	9	YY	5	7	0	2	0	0	5	7
CNTRL14	6	SS	0.0000	5	10	YY	7	5	0	0	0	0	7	7
CNTRL14	6	SS	0.0000	6	11	YY	7	7	0	0	0	0	4	10
CNTRL14	6	SS	0.0000	6	12	YY	4	10	0	1	0	0	7	7
CNTRL14	6	SS	0.0000	7	13	YY	7	4	0	0	0	0	4	8
CNTRL14	6	SS	0.0000	7	14	YY	4	8	0	0	0	0	6	6
CNTRL14	6	SS	0.0000	8	15	YY	6	6	0	0	0	0	7	6
CNTRL14	6	SS	0.0000	8	16	YY	7	6	0	1	0	0	8	7
CNTRL14	6	SS	0.0000	9	17	YY	7	6	0	0	0	2	7	9
CNTRL14	6	SS	0.0000	9	18	YY	6	9	0	0	0	0	4	7
CNTRL14	6	SS	0.0000	10	19	YY	4	6	0	0	0	0	8	4
CNTRL14	6	S	0.0000	10	20	YY	8	3	0	0	0	0	10	12
71-14	6	S	.0300	51	101	Y	4	10	0	0	0	0	7	7
71-14	6	S	.0300	51	102	YY	7	7	0	0	0	0	5	6
71-14	6	SS	.0300	52	103	YY	5	6	0	0	0	0	-0	-0
71-14	6	SS	.0300	52	104	NY	-0	-0	-0	-0	-0	-0	6	6
71-14	6	SS	.0300	53	105	YY	5	7	0	0	1	0	7	4
71-14	6	SS	.0300	53	106	YY	7	2	0	0	0	0	5	6
71-14	6	SS	.0300	54	107	YY	5	6	0	0	0	0	-0	-0
71-14	6	SS	.0300	54	108	NY	-0	-0	-0	-0	-0	-0	8	5
71-14	6	SS	.0300	55	109	YY	7	4	0	0	0	0	6	5
71-14	6	SS	.0300	55	110	YY	6	6	0	0	0	0	7	7
71-14	6	SS	.0300	56	111	YY	7	7	0	0	0	0	4	9
71-14	6	SS	.0300	56	112	YY	4	6	0	0	0	1	12	3
71-14	6	SS	.0300	57	113	YY	11	2	0	0	0	0	5	3
71-14	6	SS	.0300	57	114	YY	4	7	0	0	0	0	7	7
71-14	6	SS	.0300	58	115	YY	8	3	1	0	3	2	3	8
71-14	6	SS	.0300	58	116	YY	3	8	0	0	0	0	6	7
71-14	6	SS	.0300	59	117	YY	6	8	0	1	0	0	7	4
71-14	6	SS	.0300	59	118	YY	7	5	0	0	0	0	8	8
71-14	6	SS	.0300	60	119	YY	7	2	0	0	0	0	0	5
71-14	6	S	.0300	60	120	YY	5	6	0	0	0	0	7	8

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

LOCUST BEAN GUM

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS	EARLY DEATHS		LATE DEATHS		CORPORAL LUTEA		
								L	R	L	R	L	R	
71-14	6	S	2.5000	61	121	Y	5	5	0	0	0	0	5	7
71-14	6	S	2.5000	61	122	YY	5	8	0	0	0	0	6	8
71-14	6	S	2.5000	62	123	YY	3	10	0	0	1	1	3	10
71-14	6	S	2.5000	62	124	YY	8	8	0	0	0	0	8	8
71-14	6	S	2.5000	63	125	YY	7	5	0	0	0	0	8	6
71-14	6	S	2.5000	63	126	YY	9	5	0	0	0	0	10	5
71-14	6	S	2.5000	64	127	YY	7	6	0	0	0	0	8	6
71-14	6	S	2.5000	64	128	YY	4	6	0	0	0	0	4	7
71-14	6	S	2.5000	65	129	YY	5	8	0	0	0	0	5	9
71-14	6	S	2.5000	65	130	YY	7	5	0	0	0	0	7	5
71-14	6	S	2.5000	66	131	YY	6	7	0	0	1	0	6	7
71-14	6	S	2.5000	66	132	YY	7	8	1	0	1	1	7	9
71-14	6	S	2.5000	67	133	YY	8	6	0	0	2	2	6	6
71-14	6	S	2.5000	67	134	YY	6	7	0	0	0	0	6	8
71-14	6	S	2.5000	68	135	YY	7	6	0	0	0	0	7	6
71-14	6	S	2.5000	68	136	YY	7	2	0	0	0	0	7	4
71-14	6	S	2.5000	69	137	YY	9	4	0	0	0	0	9	8
71-14	6	S	2.5000	69	138	YY	8	5	0	0	0	0	8	6
71-14	6	S	2.5000	70	139	YY	6	8	0	0	0	1	6	9
71-14	6	S	2.5000	70	140	YY	5	7	0	0	0	1	5	8
71-14	6	S	5.0000	71	141	YY	7	8	0	0	0	2	8	9
71-14	6	S	5.0000	71	142	YY	7	8	0	0	0	0	7	8
71-14	6	S	5.0000	72	143	YY	6	8	0	0	0	0	7	7
71-14	6	S	5.0000	72	144	YY	5	5	2	1	1	0	5	5
71-14	6	S	5.0000	73	145	YY	4	7	0	0	1	1	4	9
71-14	6	S	5.0000	73	146	YY	1	3	0	0	0	0	4	4
71-14	6	S	5.0000	74	147	YY	7	6	0	0	0	0	8	6
71-14	6	S	5.0000	74	148	YY	6	0	0	0	0	0	7	8
71-14	6	S	5.0000	75	149	YY	9	6	0	0	0	0	10	6
71-14	6	S	5.0000	75	150	YY	7	3	0	0	0	1	8	8
71-14	6	S	5.0000	76	151	YY	4	9	0	0	0	0	4	9
71-14	6	S	5.0000	76	152	YY	9	6	0	0	0	0	10	6
71-14	6	S	5.0000	77	153	YY	5	6	1	0	0	0	6	6
71-14	6	S	5.0000	77	154	YY	8	5	1	0	0	0	8	5
71-14	6	S	5.0000	78	155	YY	6	6	0	0	0	0	7	6
71-14	6	S	5.0000	78	156	YY	8	8	0	0	0	0	8	8
71-14	6	S	5.0000	79	157	YY	10	9	1	0	0	0	9	7
71-14	6	S	5.0000	79	158	YY	7	2	0	0	0	0	10	7
71-14	6	S	5.0000	80	159	YY	10	8	1	0	0	0	9	7
71-14	6	S	5.0000	80	160	YY	10	8	0	0	0	0	10	8

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

LOCUST BEAN GUM

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS		EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
							L	R	L	R	L	R	L	R
TEM 14	6	S	.0002	11	21	Y	7	6	0	0	0	1	8	7
TEM 14	6	S	.0002	11	22	YY	7	8	1	0	0	0	7	8
TEM 14	6	S	.0002	12	23	YY	0	4	0	0	0	0	10	4
TEM 14	6	S	.0002	12	24	YY	7	8	2	0	1	0	3	8
TEM 14	6	S	.0002	13	25	YY	8	8	0	0	2	0	8	9
TEM 14	6	S	.0002	13	26	YY	8	8	0	0	2	0	8	8
TEM 14	6	S	.0002	14	27	YY	7	7	0	2	1	0	10	7
TEM 14	6	S	.0002	14	28	YY	9	6	1	0	2	0	9	6
TEM 14	6	S	.0002	15	29	YY	6	7	0	2	1	0	7	7
TEM 14	6	S	.0002	15	30	YY	4	9	0	1	0	0	4	5
TEM 14	6	S	.0002	16	31	YY	6	5	2	0	1	0	5	10
TEM 14	6	S	.0002	16	32	YY	5	9	0	0	0	0	7	8
TEM 14	6	S	.0002	17	33	YY	7	7	0	0	1	0	8	8
TEM 14	6	S	.0002	17	34	YY	7	8	0	0	0	0	5	7
TEM 14	6	S	.0002	18	35	YY	5	7	0	0	0	0	6	6
TEM 14	6	S	.0002	18	36	YY	7	8	0	0	0	0	5	6
TEM 14	6	S	.0002	19	37	YY	6	5	0	0	0	0	1	1
TEM 14	6	S	.0002	19	38	YY	1	5	0	0	0	0	2	0
TEM 14	6	S	.0002	20	39	YY	13	6	1	0	0	0	20	0
TEM 14	6	S	.0002	20	40	YY	10	1	0	0	0	0	13	10
CNTRL14	6	M	0.0000	1	1	Y	7	6	0	0	0	0	8	6
CNTRL14	6	M	0.0000	1	2	YY	8	8	0	0	0	0	8	8
CNTRL14	6	M	0.0000	2	3	YY	5	9	0	0	0	1	5	10
CNTRL14	6	M	0.0000	2	4	YY	6	9	0	0	0	1	3	3
CNTRL14	6	M	0.0000	3	5	YY	8	5	0	0	0	0	6	6
CNTRL14	6	M	0.0000	3	6	YY	6	9	0	0	0	0	6	6
CNTRL14	6	M	0.0000	4	7	YY	3	11	0	0	0	0	3	11
CNTRL14	6	M	0.0000	4	8	YY	5	8	0	0	0	0	6	8
CNTRL14	6	M	0.0000	5	9	YY	6	7	0	0	0	0	5	7
CNTRL14	6	M	0.0000	5	10	YY	7	5	0	0	0	0	8	7
CNTRL14	6	M	0.0000	6	11	YY	7	7	0	0	0	0	7	7
CNTRL14	6	M	0.0000	6	12	YY	4	10	0	0	0	1	4	10
CNTRL14	6	M	0.0000	7	13	YY	7	4	0	0	0	0	7	7
CNTRL14	6	M	0.0000	7	14	YY	4	8	0	0	0	0	4	6
CNTRL14	6	M	0.0000	8	15	YY	6	6	0	0	0	0	6	6
CNTRL14	6	M	0.0000	8	16	YY	7	6	0	0	0	1	6	6
CNTRL14	6	M	0.0000	9	17	YY	7	6	0	0	0	0	7	9
CNTRL14	6	M	0.0000	9	18	YY	6	9	0	0	0	0	4	8
CNTRL14	6	M	0.0000	10	19	YY	4	6	0	0	0	0	2	0
CNTRL14	6	M	0.0000	10	20	YY	8	3	0	0	0	0	0	4

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

LOCUST BEAN GUM

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS		EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
							L	R	L	R	L	R	L	R
71-14	6	M	.0300	41	81	Y	8	5	0	0	0	0	8	5
71-14	6	M	.0300	41	82	YY	8	6	1	1	0	0	8	7
71-14	6	M	.0300	42	83	YY	6	6	0	1	2	1	6	6
71-14	6	M	.0300	42	84	YY	10	3	7	3	0	0	10	3
71-14	6	M	.0300	43	85	YY	7	5	0	0	0	0	7	5
71-14	6	M	.0300	43	86	Y	8	4	0	0	0	0	8	5
71-14	6	M	.0300	44	87	YY	8	4	1	0	0	0	8	5
71-14	6	M	.0300	44	88	YY	5	7	0	0	0	0	5	6
71-14	6	M	.0300	45	89	YY	6	6	0	0	0	0	6	6
71-14	6	M	.0300	45	90	YY	3	8	0	0	0	0	4	10
71-14	6	M	.0300	46	91	YY	9	4	0	0	0	0	9	4
71-14	6	M	.0300	46	92	YY	8	6	0	0	0	0	8	6
71-14	6	M	.0300	47	93	YY	3	8	0	0	0	0	3	9
71-14	6	M	.0300	47	94	YY	7	6	0	0	4	4	8	6
71-14	6	M	.0300	48	95	YY	5	10	2	0	0	0	5	10
71-14	6	M	.0300	48	96	YY	6	6	0	0	1	0	7	8
71-14	6	M	.0300	49	97	YY	6	7	1	0	0	0	6	7
71-14	6	M	.0300	49	98	YY	7	7	0	0	1	0	7	7
71-14	6	M	.0300	50	99	YY	7	5	1	0	0	0	9	5
71-14	6	M	.0300	50	100	Y	9	5	0	0	0	0	3	10
71-14	6	M	2.5000	51	101	Y	3	8	0	0	1	0	8	5
71-14	6	M	2.5000	51	102	YY	8	4	0	0	2	0	5	6
71-14	6	M	2.5000	52	103	YY	0	3	0	0	0	0	5	7
71-14	6	M	2.5000	52	104	YY	4	7	0	0	0	0	7	5
71-14	6	M	2.5000	53	105	YY	7	5	0	0	0	0	6	7
71-14	6	M	2.5000	53	106	YY	6	5	0	0	0	0	6	7
71-14	6	M	2.5000	54	107	YY	6	7	2	0	0	0	7	4
71-14	6	M	2.5000	54	108	YY	6	3	0	0	0	0	9	3
71-14	6	M	2.5000	55	109	YY	9	8	0	0	2	1	4	9
71-14	6	M	2.5000	55	110	YY	4	8	0	0	0	0	8	7
71-14	6	M	2.5000	56	111	YY	3	6	0	1	0	0	4	6
71-14	6	M	2.5000	56	112	YY	4	6	0	0	0	0	6	6
71-14	6	M	2.5000	57	113	YY	6	6	1	0	0	0	7	8
71-14	6	M	2.5000	57	114	YY	7	4	0	0	0	0	8	7
71-14	6	M	2.5000	58	115	YY	8	7	1	0	0	0	6	6
71-14	6	M	2.5000	58	116	YY	6	6	0	0	2	0	6	8
71-14	6	M	2.5000	59	117	YY	6	7	0	0	0	0	6	7
71-14	6	M	2.5000	59	118	YY	5	3	1	0	0	0	5	6
71-14	6	M	2.5000	60	119	YY	6	5	0	0	0	0	6	6
71-14	6	M	2.5000	60	120	Y	6	5	0	0	0	0	6	6

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

LOCUST BEAN GUM

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS		EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
							L	R	L	R	L	R	L	R
71-14	6	M	5.0000	61	121	Y	9	4	0	0	0	0	9	4
71-14	6	M	5.0000	61	122	YY	4	9	0	0	0	0	4	9
71-14	6	M	5.0000	62	123	YY	7	9	1	0	0	0	8	9
71-14	6	M	5.0000	62	124	YY	7	5	0	0	0	0	10	7
71-14	6	M	5.0000	63	125	YY	6	6	0	0	1	0	6	6
71-14	6	M	5.0000	63	126	YY	5	11	0	0	0	1	5	11
71-14	6	M	5.0000	64	127	YY	8	5	0	0	0	0	9	5
71-14	6	M	5.0000	64	128	YY	4	7	0	0	0	0	4	7
71-14	6	M	5.0000	65	129	YY	3	9	0	0	0	0	3	9
71-14	6	M	5.0000	65	130	YY	5	7	0	0	0	0	6	7
71-14	6	M	5.0000	66	131	YY	6	8	0	0	0	0	6	9
71-14	6	M	5.0000	66	132	YY	6	8	0	0	2	4	6	8
71-14	6	M	5.0000	67	133	YY	6	7	0	0	0	0	6	7
71-14	6	M	5.0000	67	134	YY	3	9	0	0	0	0	3	9
71-14	6	M	5.0000	68	135	YY	6	5	0	0	0	0	6	6
71-14	6	M	5.0000	68	136	YY	2	8	0	0	0	0	2	9
71-14	6	M	5.0000	69	137	YY	5	7	0	0	0	0	5	7
71-14	6	M	5.0000	69	138	YY	4	11	0	0	0	0	4	11
71-14	6	M	5.0000	70	139	YY	0	3	0	0	0	0	0	6
71-14	6	M	5.0000	70	140	YY	4	8	0	0	0	0	4	8

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

LOCUST BEAN GUM

PAGE 31

TEST MATERIAL	WEEK	S/M	DOSE	MALE		PREG.	IMPLANTS	EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
				NO.	NO.			L	R	L	R	L	R
CNTRL14	7	S	0.0000	1	1	Y	3	10	0	0	1	1	3 10
CNTRL14	7	S	0.0000	1	2	YY	4	5	0	0	0	0	8 5
CNTRL14	7	S	0.0000	2	3	YY	6	7	0	1	0	0	6 7
CNTRL14	7	S	0.0000	2	4	YY	7	9	0	0	0	0	7 9
CNTRL14	7	S	0.0000	3	5	YY	6	9	0	0	0	0	6 9
CNTRL14	7	S	0.0000	3	6	YY	6	7	0	1	0	0	6 7
CNTRL14	7	S	0.0000	4	7	YY	9	5	1	0	2	0	10 5
CNTRL14	7	S	0.0000	4	8	YY	4	8	0	0	0	0	4 8
CNTRL14	7	S	0.0000	5	9	YY	11	3	1	0	2	0	12 3
CNTRL14	7	S	0.0000	5	10	YY	3	10	0	0	0	0	3 11
CNTRL14	7	S	0.0000	6	11	YY	5	7	0	0	0	0	5 4
CNTRL14	7	S	0.0000	6	12	YY	7	4	0	0	0	0	8 5
CNTRL14	7	S	0.0000	7	13	YY	8	5	0	0	0	0	6 10
CNTRL14	7	S	0.0000	7	14	YY	6	9	1	1	0	0	11 6
CNTRL14	7	S	0.0000	8	15	YY	11	5	1	0	0	0	9 5
CNTRL14	7	S	0.0000	8	16	YY	9	5	0	0	0	0	7 4
CNTRL14	7	S	0.0000	9	17	YY	7	4	1	0	0	0	8 7
CNTRL14	7	S	0.0000	9	18	YY	7	7	0	0	0	0	5 7
CNTRL14	7	S	0.0000	10	19	YY	5	7	0	0	1	0	5 5
CNTRL14	7	S	0.0000	10	20	Y	5	7	0	0	0	0	6 6
71-14	7	S	.0300	51	101	Y	6	6	0	0	0	0	6 6
71-14	7	S	.0300	51	102	YY	7	6	0	0	0	0	7 7
71-14	7	S	.0300	52	103	YY	7	6	0	0	0	0	7 6
71-14	7	S	.0300	52	104	YY	6	6	0	0	0	0	8 8
71-14	7	S	.0300	53	105	YY	3	7	0	0	0	0	3 8
71-14	7	S	.0300	53	106	YY	0	7	0	0	0	0	5 8
71-14	7	S	.0300	54	107	YY	4	10	0	0	0	0	4 10
71-14	7	S	.0300	54	108	YY	7	4	0	0	0	0	7 4
71-14	7	S	.0300	55	109	YY	2	8	0	0	0	0	2 8
71-14	7	S	.0300	55	110	YY	8	7	0	0	0	0	9 7
71-14	7	S	.0300	56	111	YY	6	6	0	1	0	0	6 6
71-14	7	S	.0300	56	112	YY	4	6	1	0	0	0	4 6
71-14	7	S	.0300	57	113	YY	7	6	0	0	0	0	7 6
71-14	7	S	.0300	57	114	YY	8	6	0	1	0	0	8 6
71-14	7	S	.0300	58	115	YY	8	5	0	1	0	0	8 5
71-14	7	S	.0300	58	116	YY	3	10	0	0	1	0	3 10
71-14	7	S	.0300	59	117	YY	5	5	0	0	0	0	6 4
71-14	7	S	.0300	59	118	YY	3	8	0	1	0	0	7 4
71-14	7	S	.0300	60	119	YY	6	4	0	0	0	0	8 6
71-14	7	S	.0300	60	120	Y	8	6	0	0	0	0	8 6

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

LOCUST BEAN GUM

PAGE 32

TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS	EARLY DEATHS		LATE DEATHS		CORPORA LUTEA		
								L	R	L	R	L	R	
71-14	7	S	2.5000	61	121	Y	7	7	1	1	0	0	7	7
71-14	7	S	2.5000	61	122	Y	7	8	0	2	0	0	7	8
71-14	7	S	2.5000	62	123	Y	5	7	0	0	0	0	6	7
71-14	7	S	2.5000	62	124	Y	6	7	0	0	0	0	6	7
71-14	7	S	2.5000	63	125	Y	6	8	0	0	0	1	6	8
71-14	7	S	2.5000	63	126	YY	9	5	0	0	0	0	9	5
71-14	7	S	2.5000	64	127	YY	4	11	0	1	0	0	5	11
71-14	7	S	2.5000	64	128	YY	9	4	0	0	0	0	9	4
71-14	7	S	2.5000	65	129	YY	8	4	0	0	0	0	9	4
71-14	7	S	2.5000	65	130	YY	5	8	0	0	0	0	6	9
71-14	7	S	2.5000	66	131	YY	6	10	0	0	0	0	6	10
71-14	7	S	2.5000	66	132	YY	5	9	0	0	0	0	5	9
71-14	7	S	2.5000	67	133	YY	5	8	0	0	0	1	9	8
71-14	7	S	2.5000	67	134	YY	6	7	0	0	0	0	6	7
71-14	7	S	2.5000	68	135	YY	9	4	0	0	0	0	5	4
71-14	7	S	2.5000	68	136	YY	5	7	0	0	0	0	7	6
71-14	7	S	2.5000	69	137	YY	7	6	0	0	0	0	5	6
71-14	7	S	2.5000	69	138	YY	4	7	0	0	0	0	4	7
71-14	7	S	2.5000	70	139	YY	5	6	0	0	0	0	5	8
71-14	7	S	2.5000	70	140	YY	8	4	0	0	0	0	8	4
71-14	7	S	5.0000	71	141	YY	3	10	0	0	0	0	3	10
71-14	7	S	5.0000	71	142	YY	4	9	0	0	0	0	4	9
71-14	7	S	5.0000	72	143	YY	2	6	0	0	0	1	5	7
71-14	7	S	5.0000	72	144	YY	5	7	0	0	0	0	8	4
71-14	7	S	5.0000	73	145	YY	8	3	1	0	0	0	8	4
71-14	7	S	5.0000	73	146	YY	8	5	0	0	0	0	8	6
71-14	7	S	5.0000	74	147	YY	8	6	0	0	0	0	8	6
71-14	7	S	5.0000	74	148	YY	7	5	0	0	0	0	8	6
71-14	7	S	5.0000	75	149	YY	6	7	0	0	0	0	8	5
71-14	7	S	5.0000	75	150	YY	8	5	0	2	0	0	8	5
71-14	7	S	5.0000	76	151	YY	5	5	0	0	0	0	6	6
71-14	7	S	5.0000	76	152	YY	7	4	0	0	0	1	7	4
71-14	7	S	5.0000	77	153	YY	4	9	0	0	0	0	4	9
71-14	7	S	5.0000	77	154	YY	3	7	0	0	0	1	4	7
71-14	7	S	5.0000	78	155	YY	6	7	0	0	0	0	6	7
71-14	7	S	5.0000	78	156	YY	4	9	1	0	0	0	9	3
71-14	7	S	5.0000	79	157	YY	8	7	0	0	0	0	8	7
71-14	7	S	5.0000	79	158	YY	7	7	0	0	0	0	7	7
71-14	7	S	5.0000	80	159	YY	9	7	0	0	0	0	9	6
71-14	7	S	5.0000	80	160	YY	6	6	0	0	0	0	6	6

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS		EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
							L	R	L	R	L	R	L	R
TEM 14	7	S	.0002	11	21	Y	6	9	0	0	0	0	6	9
TEM 14	7	SS	.0002	11	22	Y	5	7	0	0	1	0	5	7
TEM 14	7	SS	.0002	12	23	Y	3	10	0	1	0	0	4	10
TEM 14	7	SS	.0002	12	24	YY	7	5	0	0	0	0	7	5
TEM 14	7	SS	.0002	13	25	YY	6	6	0	0	0	0	7	6
TEM 14	7	SS	.0002	13	26	YY	2	8	0	0	0	0	2	11
TEM 14	7	SS	.0002	14	27	YY	3	7	0	0	1	0	3	8
TEM 14	7	SS	.0002	14	28	YY	6	7	0	0	0	0	6	7
TEM 14	7	SS	.0002	15	29	YY	5	10	0	0	1	1	5	10
TEM 14	7	SS	.0002	15	30	YY	5	8	0	0	0	0	6	9
TEM 14	7	SS	.0002	16	31	YY	6	5	0	0	0	0	6	5
TEM 14	7	SS	.0002	16	32	YY	1	1	1	1	0	0	3	8
TEM 14	7	SS	.0002	17	33	YY	6	8	0	0	0	0	6	8
TEM 14	7	SS	.0002	17	34	YY	9	6	0	0	0	0	9	6
TEM 14	7	SS	.0002	18	35	YY	7	7	0	0	0	0	7	7
TEM 14	7	SS	.0002	18	36	YY	6	8	0	0	0	0	6	8
TEM 14	7	SS	.0002	19	37	YY	6	6	0	0	0	0	7	5
TEM 14	7	SS	.0002	19	38	YY	7	5	0	0	0	0	7	5
TEM 14	7	SS	.0002	20	39	YY	7	5	0	0	2	0	4	9
TEM 14	7	S	.0002	20	40	YY	4	9	0	0	0	0	4	9
CNTRL14	7	M	0.0000	1	1	Y	3	10	0	0	1	1	3	10
CNTRL14	7	M	0.0000	1	2	YY	4	5	0	0	0	0	8	5
CNTRL14	7	M	0.0000	2	3	YY	6	7	0	0	0	0	7	9
CNTRL14	7	M	0.0000	2	4	YY	7	9	0	0	0	0	6	9
CNTRL14	7	M	0.0000	3	5	YY	6	9	0	0	0	0	6	7
CNTRL14	7	M	0.0000	3	6	YY	6	7	0	0	1	0	6	7
CNTRL14	7	M	0.0000	4	7	YY	9	5	1	0	2	0	10	5
CNTRL14	7	M	0.0000	4	8	YY	4	8	0	0	0	0	4	8
CNTRL14	7	M	0.0000	5	9	YY	11	3	1	0	0	0	12	3
CNTRL14	7	M	0.0000	5	10	YY	3	10	0	0	0	0	3	11
CNTRL14	7	M	0.0000	6	11	YY	5	7	0	0	0	0	5	8
CNTRL14	7	M	0.0000	6	12	YY	7	4	0	0	0	0	7	4
CNTRL14	7	M	0.0000	7	13	YY	8	5	0	0	0	0	8	5
CNTRL14	7	M	0.0000	7	14	YY	6	9	1	1	0	0	6	10
CNTRL14	7	M	0.0000	8	15	YY	11	5	1	0	0	0	11	6
CNTRL14	7	M	0.0000	8	16	YY	9	5	0	0	0	0	9	5
CNTRL14	7	M	0.0000	9	17	YY	7	7	0	0	0	0	7	7
CNTRL14	7	M	0.0000	9	18	YY	5	7	0	0	0	0	5	7
CNTRL14	7	M	0.0000	10	19	Y	5	7	0	1	0	0	5	7
CNTRL14	7	M	0.0000	10	20	Y	5	7	0	0	0	0	5	7

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS	EARLY DEATHS		LATE DEATHS		CORPORA LUTEA	
								L	P	L	R	L	R
71-14	7	M	.0300	41	81	Y	7	6	0	0	0	0	8 6
71-14	7	M	.0300	41	82	YY	4	5	0	0	0	0	4 6
71-14	7	M	.0300	42	83	YY	6	6	5	4	0	0	6 7
71-14	7	M	.0300	42	84	YY	8	4	3	3	0	0	9 4
71-14	7	M	.0300	43	85	YY	6	5	0	0	0	0	8 5
71-14	7	M	.0300	43	86	YY	4	7	0	0	1	0	4 7
71-14	7	M	.0300	44	87	YY	2	10	1	0	0	3	2 10
71-14	7	M	.0300	44	88	YY	4	4	0	0	0	0	7 4
71-14	7	M	.0300	45	89	YY	6	6	0	0	0	0	7 7
71-14	7	M	.0300	45	90	YY	7	7	3	5	2	0	7 7
71-14	7	M	.0300	46	91	YY	6	4	3	0	1	2	8 5
71-14	7	M	.0300	46	92	YY	7	4	1	1	0	0	7 4
71-14	7	M	.0300	47	93	YY	4	4	0	1	0	0	5 7
71-14	7	M	.0300	47	94	YY	6	7	0	0	0	0	6 7
71-14	7	M	.0300	48	95	YY	7	7	1	0	0	0	7 7
71-14	7	M	.0300	48	96	YY	9	4	0	0	0	0	10 5
71-14	7	M	.0300	49	97	YY	7	5	0	0	0	0	9 6
71-14	7	M	.0300	49	98	Y	-0	-0	-0	-0	-0	-0	-0 -0
71-14	7	M	.0300	50	99	YY	5	5	0	0	0	0	7 5
71-14	7	M	.0300	50	100	Y	4	9	3	1	0	1	4 10
71-14	7	M	2.5000	51	101	YY	7	6	1	0	0	0	8 6
71-14	7	M	2.5000	51	102	YY	7	4	0	0	0	0	8 4
71-14	7	M	2.5000	52	103	YY	7	8	0	0	0	0	6 8
71-14	7	M	2.5000	52	104	YY	5	7	0	0	0	1	7 8
71-14	7	M	2.5000	53	105	YY	5	7	0	0	0	0	6 7
71-14	7	M	2.5000	53	106	YY	5	4	0	0	1	0	5 4
71-14	7	M	2.5000	54	107	YY	1	11	0	1	0	5	1 13
71-14	7	M	2.5000	54	108	YY	1	10	0	1	0	0	1 10
71-14	7	M	2.5000	55	109	YY	3	6	0	0	0	0	4 11
71-14	7	M	2.5000	55	110	YY	3	9	0	1	0	0	3 10
71-14	7	M	2.5000	56	111	YY	5	7	0	0	0	0	5 7
71-14	7	M	2.5000	56	112	YY	6	5	0	0	0	0	6 5
71-14	7	M	2.5000	57	113	YY	6	6	0	0	0	0	6 6
71-14	7	M	2.5000	57	114	YY	6	6	0	0	0	0	6 6
71-14	7	M	2.5000	58	115	YY	4	7	0	0	0	3	5 8
71-14	7	M	2.5000	58	116	YY	7	6	0	0	0	0	7 6
71-14	7	M	2.5000	59	117	YY	3	9	0	0	0	0	4 9
71-14	7	M	2.5000	59	118	YY	8	5	0	1	0	0	9 4
71-14	7	M	2.5000	60	119	YY	7	7	0	1	0	0	7 6
71-14	7	M	2.5000	60	120	Y	7	7	0	0	0	0	7 7

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DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS	EARLY DEATHS		LATE DEATHS		CORPORA LUTEA		
								L	R	L	R	L	R	
CNTRL14	8	S	0.0000	1	1	Y	6	5	1	0	0	0	7	7
CNTRL14	8	S	0.0000	1	2	N	-0	-0	-0	-0	-0	-0	-0	-0
CNTRL14	8	S	0.0000	2	3	Y	4	7	0	0	0	0	4	7
CNTRL14	8	S	0.0000	2	4	N	-0	-0	-0	-0	-0	-0	-0	-0
CNTRL14	8	S	0.0000	3	5	Y	7	5	0	0	0	0	7	5
CNTRL14	8	S	0.0000	3	6	N	-0	-0	-0	-0	-0	-0	-0	-0
CNTRL14	8	S	0.0000	4	7	Y	9	3	0	0	0	0	9	5
CNTRL14	8	S	0.0000	4	8	Y	3	6	0	3	1	0	6	8
CNTRL14	8	S	0.0000	5	9	Y	5	6	0	0	0	0	6	6
CNTRL14	8	S	0.0000	5	10	Y	6	6	0	1	0	0	7	8
CNTRL14	8	S	0.0000	6	11	Y	7	8	1	1	0	0	8	5
CNTRL14	8	S	0.0000	6	12	Y	8	5	1	1	0	0	4	10
CNTRL14	8	S	0.0000	7	13	Y	4	9	1	0	0	0	6	7
CNTRL14	8	S	0.0000	7	14	Y	0	2	1	0	0	0	9	5
CNTRL14	8	S	0.0000	8	15	Y	6	5	1	0	0	0	6	7
CNTRL14	8	S	0.0000	8	16	Y	6	5	1	0	0	0	5	7
CNTRL14	8	S	0.0000	9	17	Y	5	7	0	0	0	0	9	6
CNTRL14	8	S	0.0000	9	18	Y	9	4	0	0	0	0	2	11
CNTRL14	8	S	0.0000	10	19	Y	2	11	0	1	1	1	4	7
CNTRL14	8	S	0.0000	10	20	Y	4	5	0	1	0	0	6	6
71-14	8	S	.0300	51	101	Y	6	6	0	0	0	0	6	6
71-14	8	S	.0300	51	102	Y	7	4	0	0	0	0	7	4
71-14	8	S	.0300	52	103	Y	7	4	0	0	1	0	-0	-0
71-14	8	S	.0300	52	104	Y	-0	-0	-0	-0	-0	-0	5	4
71-14	8	S	.0300	53	105	Y	5	4	0	0	0	0	6	4
71-14	8	S	.0300	53	106	Y	9	1	2	0	0	0	9	2
71-14	8	S	.0300	54	107	Y	8	5	0	0	0	0	9	6
71-14	8	S	.0300	54	108	Y	9	4	0	0	0	0	9	5
71-14	8	S	.0300	55	109	Y	7	5	0	0	0	0	7	6
71-14	8	S	.0300	55	110	Y	-0	-0	-0	-0	-0	-0	-0	-0
71-14	8	S	.0300	55	111	NN	-0	-0	-0	-0	-0	-0	-0	-0
71-14	8	S	.0300	56	112	NN	-0	-0	-0	-0	-0	-0	-0	-0
71-14	8	S	.0300	57	113	Y	6	7	0	0	3	1	7	7
71-14	8	S	.0300	57	114	Y	6	8	1	4	0	0	6	8
71-14	8	S	.0300	58	115	Y	6	4	2	0	0	0	7	6
71-14	8	S	.0300	58	116	Y	0	3	0	0	0	0	9	9
71-14	8	S	.0300	59	117	Y	9	9	0	0	0	0	7	6
71-14	8	S	.0300	59	118	Y	-0	-0	-0	-0	-0	-0	-0	-0
71-14	8	S	.0300	60	119	NY	-0	-0	1	1	0	0	8	6
71-14	8	S	.0300	60	120	Y	5	2	1	1	0	0	6	6

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

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TEST MATERIAL	WEEK	S/M	DOSE	MALE NO.	FEMALE NO.	PREG.	IMPLANTS	EARLY DEATHS		LATE DEATHS		CORPORA LUTEA		
								L	R	L	R	L	R	
71-14	8	.5	2.5000	61	121	Y	5	10	0	0	0	0	5	10
71-14	8	S	2.5000	61	122	YY	7	7	0	0	0	0	8	7
71-14	8	S	2.5000	62	123	YY	2	11	1	0	0	0	2	12
71-14	8	S	2.5000	62	124	YY	6	4	0	1	1	0	9	5
71-14	8	SS	2.5000	63	125	YY	6	7	1	0	0	0	6	7
71-14	8	SS	2.5000	63	126	YY	6	6	0	0	0	0	6	6
71-14	8	SS	2.5000	64	127	YY	3	6	-1	0	0	0	4	6
71-14	8	SS	2.5000	64	128	N	7	3	0	0	0	0	8	4
71-14	8	SS	2.5000	65	129	YY	5	7	0	0	0	0	5	7
71-14	8	SS	2.5000	65	130	YY	4	7	0	0	1	0	4	0
71-14	8	SS	2.5000	66	131	YY	-0	-0	-0	-0	-0	-0	-0	-0
71-14	8	SS	2.5000	66	132	NY	7	5	1	0	1	1	7	6
71-14	8	S	2.5000	67	133	YY	5	6	0	1	0	0	8	6
71-14	8	SS	2.5000	67	134	YY	4	8	0	0	0	0	4	8
71-14	8	SS	2.5000	68	135	YY	5	7	0	0	0	0	5	7
71-14	8	SS	2.5000	68	136	YY	5	6	0	0	0	0	7	6
71-14	8	SS	2.5000	69	137	YY	7	6	0	0	0	0	7	6
71-14	8	SS	2.5000	69	138	YY	6	4	0	0	1	0	6	4
71-14	8	S	2.5000	70	139	Y	9	5	0	0	1	0	10	5
71-14	8	S	2.5000	70	140	Y	9	5	0	0	0	0	10	5
71-14	8	S	5.0000	71	141	YY	7	5	2	0	0	0	7	7
71-14	8	SS	5.0000	71	142	YY	8	4	2	1	0	0	10	5
71-14	8	SS	5.0000	72	143	YY	4	4	0	0	0	0	7	7
71-14	8	SS	5.0000	72	144	YY	7	7	0	0	0	0	7	5
71-14	8	S	5.0000	73	145	YY	6	5	0	0	0	0	7	6
71-14	8	S	5.0000	73	146	YY	5	6	0	0	0	0	7	7
71-14	8	SS	5.0000	74	147	YY	7	4	0	0	0	0	5	4
71-14	8	SS	5.0000	74	148	YY	5	4	0	0	0	0	8	4
71-14	8	SS	5.0000	75	149	YY	7	4	0	0	0	0	3	8
71-14	8	SS	5.0000	75	150	YY	3	8	0	0	0	0	6	8
71-14	8	S	5.0000	76	151	YY	6	6	0	0	0	0	6	6
71-14	8	SS	5.0000	76	152	YY	1	15	0	0	0	0	15	5
71-14	8	SS	5.0000	77	153	YY	6	5	0	0	0	0	8	8
71-14	8	SS	5.0000	77	154	YY	4	8	0	0	0	0	4	4
71-14	8	SS	5.0000	78	155	YY	2	3	0	0	0	0	2	0
71-14	8	SS	5.0000	78	156	YY	0	8	0	0	0	0	4	0
71-14	8	SS	5.0000	79	157	YY	7	5	1	0	0	0	8	8
71-14	8	SS	5.0000	79	158	YY	5	6	1	0	0	0	6	6
71-14	8	SS	5.0000	80	159	YY	5	1	0	0	0	0	5	5
71-14	8	SS	5.0000	80	160	YY	8	5	0	0	0	0	8	8

DOMINANT LETHAL GENE STUDY OF COMPOUND 71-14

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CHI-SQUARE TEST OF THE FERTILITY INDEX (1 DEGREE OF FREEDOM)

WEEK	VEHICLE CONTROL				71-14 .03 G/KG				71-14 2.5 G/KG				71-14 5.0 G/KG				TEM .2 MG/KG			
	N PRG	N MTD	FERT. INDEX	CHISQ	N PRG	N MTD	FERT. INDEX	CHISQ	N PRG	N MTD	FERT. INDEX	CHISQ	N PRG	N MTD	FERT. INDEX	CHISQ	N PRG	N MTD	FERT. INDEX	CHISQ
SINGLE TREATMENT																				
1	17	20	.85	0.00	13	20	.65	1.20	10	20	.50	4.10	10	20	.50	4.10	14	20	.70	.57
2	20	20	1.00	0.00	19	20	.95	0.00	20	20	1.00	0.00	19	20	.95	0.00	18	20	.90	.53
3	20	20	1.00	0.00	19	20	.95	0.00	20	20	1.00	0.00	18	20	.90	.53	20	20	1.00	0.00
4	20	20	1.00	0.00	20	20	1.00	0.00	20	20	1.00	0.00	20	20	1.00	0.00	20	20	1.00	0.00
5	20	20	1.00	0.00	20	20	1.00	0.00	20	20	1.00	0.00	20	20	1.00	0.00	20	20	1.00	0.00
6	20	20	1.00	0.00	18	20	.90	.53	20	20	1.00	0.00	20	20	1.00	0.00	20	20	1.00	0.00
7	20	20	1.00	0.00	20	20	1.00	0.00	20	20	1.00	0.00	20	20	1.00	0.00	20	20	1.00	0.00
8	17	20	.85	0.00	16	20	.80	0.00	18	20	.90	0.00	20	20	1.00	1.44	20	20	1.00	1.44
MULTIPLE TREATMENT																				
1	17	20	.85	0.00	12	20	.60	2.01	16	20	.80	0.00	16	20	.80	0.00				
2	20	20	1.00	0.00	15	20	.75	3.66	19	20	.95	0.00	19	20	.95	0.00				
3	20	20	1.00	0.00	20	20	1.00	0.00	20	20	1.00	0.00	20	20	1.00	0.00				
4	20	20	1.00	0.00	20	20	1.00	0.00	20	20	1.00	0.00	20	20	1.00	0.00				
5	20	20	1.00	0.00	18	20	.90	.53	20	20	1.00	0.00	15	20	.75	3.66				
6	20	20	1.00	0.00	20	20	1.00	0.00	20	20	1.00	0.00	20	20	1.00	0.00				
7	20	20	1.00	0.00	19	20	.95	0.00	20	20	1.00	0.00	20	20	1.00	0.00				

ARMITAGE TEST FOR A LINEAR TREND IN PROPORTIONS FOR THE FERTILITY INDEX
(1 DEGREE OF FREEDOM) BASED ON THE DOSE LEVELS

	.03 G/KG		2.5 G/KG		5.0 G/KG				
WEEK	N PRG	N MTD	N PRG	N MTD	N PRG	N MTD	CHISQ (C-1)	CHISQ (1)	ARMTG CHISQ
---	---	---	---	---	---	---	---	---	---
SINGLE TREATMENT									
1	13	20	10	20	10	20	1.21	.91	.31
2	19	20	20	20	19	20	1.03	.00	1.03
3	19	20	20	20	18	20	2.11	.53	1.57
4	20	20	20	20	20	20	0.00	0.00	0.00
5	20	20	20	20	20	20	0.00	0.00	0.00
6	18	20	20	20	20	20	4.14	3.09	1.05
7	20	20	20	20	20	20	0.00	0.00	0.00
8	16	20	18	20	20	20	4.44	4.44	.00
MULTIPLE TREATMENT									
1	12	20	16	20	16	20	2.73	2.04	.69
2	15	20	19	20	19	20	5.18	3.87	1.31
3	20	20	20	20	20	20	0.00	0.00	0.00
4	20	20	20	20	20	20	0.00	0.00	0.00
5	18	20	20	20	15	20	6.15	2.20	3.94
6	20	20	20	20	20	20	0.00	0.00	0.00
7	19	20	20	20	20	20	2.03	1.52	.51

ARMITAGE TEST FOR A LINEAR TREND IN PROPORTIONS FOR THE FERTILITY INDEX
 (1 DEGREE OF FREEDOM) BASED ON THE LOGARITHMS OF THE DOSE LEVELS

WEEK	.03 G/KG			2.5 G/KG			5.0 G/KG			CHISQ (C=1)	CHISQ (1)	ARMTG CHISQ
	N	N	PRG	N	N	PRG	N	N	PRG			
	PRG	MTD	---	PRG	MTD	---	PRG	MTD	---			
SINGLE TREATMENT												
1	13	20		10	20		10	20		1.21	1.19	.02
2	19	20		20	20		19	20		1.03	.16	.88
3	19	20		20	20		18	20		2.11	.03	2.07
4	20	20		20	20		20	20		0.00	0.00	0.00
5	20	20		20	20		20	20		0.00	0.00	0.00
6	18	20		20	20		20	20		4.14	4.07	.06
7	20	20		20	20		20	20		0.00	0.00	0.00
8	16	20		18	20		20	20		4.44	3.78	.67
MULTIPLE TREATMENT												
1	12	20		16	20		16	20		2.73	2.68	.04
2	15	20		19	20		19	20		5.18	5.09	.08
3	20	20		20	20		20	20		0.00	0.00	0.00
4	20	20		20	20		20	20		0.00	0.00	0.00
5	18	20		20	20		15	20		6.15	.35	5.80
6	20	20		20	20		20	20		0.00	0.00	0.00
7	19	20		20	20		20	20		2.03	2.00	.03

ARMITAGE TEST FOR A LINEAR TREND IN PROPORTIONS FOR THE FERTILITY INDEX
 (2 DEGREES OF FREEDOM) BASED ON THE DOSE LEVELS AND INCLUDING THE CONTROL GROUP

WEEK	CONTROL		.03 G/KG		2.5 G/KG		5.0 G/KG		CHISQ (C-1)	CHISQ (1)	ARMTG CHISQ
	N	PRG MTD	N	PRG MTD	N	PRG MTD	N	PRG MTD			
SINGLE TREATMENT											
1	17	20	13	20	10	20	10	20	7.04	4.39	2.65
2	20	20	19	20	20	20	19	20	2.05	.19	1.86
3	20	20	19	20	20	20	18	20	3.81	1.56	2.25
4	20	20	20	20	20	20	20	20	0.00	0.00	0.00
5	20	20	20	20	20	20	20	20	0.00	0.00	0.00
6	20	20	18	20	20	20	20	20	6.15	1.65	4.50
7	20	20	20	20	20	20	20	20	0.00	0.00	0.00
8	17	20	16	20	18	20	20	20	4.38	4.10	.28
MULTIPLE TREATMENT											
1	17	20	12	20	16	20	16	20	4.07	.49	3.58
2	20	20	15	20	19	20	19	20	9.24	1.12	8.12
3	20	20	20	20	20	20	20	20	0.00	0.00	0.00
4	20	20	20	20	20	20	20	20	0.00	0.00	0.00
5	20	20	18	20	20	20	15	20	10.49	5.18	5.31
6	20	20	20	20	20	20	20	20	0.00	0.00	0.00
7	20	20	19	20	20	20	20	20	3.04	.81	2.22

T-TEST OF THE NUMBER OF IMPLANTATIONS IN PREGNANT FEMALES.

WEEK	CONTROL				71-14 .03 G/KG				71-14 2.5 G/KG				71-14 5.0 G/KG				TEM .2 MG/KG							
	N PRG	MEAN	STD DEV	N PRG	MEAN	STD DEV	DF	T	N PRG	MEAN	STD DEV	DF	T	N PRG	MEAN	STD DEV	DF	T	N PRG	MEAN	STD DEV	DF	T	
SINGLE TREATMENT																								
1	17	10.76	3.19	13	10.38	3.50	28	.310	10	9.90	4.58	25	.578	10	12.10	1.79	25	1.209	14	11.36	3.18	29	.515	
2	20	12.40	1.54	19	11.63	2.97	37	1.023	20	11.95	2.70	38	.647	19	11.79	.71	37	1.578	18	10.50	3.55	36	2.179	
3	20	11.80	2.95	19	12.68	2.11	37	1.072	20	13.10	1.74	38	1.697	18	12.50	2.07	36	.838	20	9.85	3.56	38	1.887	
4	20	12.70	1.75	20	12.30	3.54	38	.453	20	12.65	1.57	38	.095	20	13.30	1.56	38	1.145	20	5.80	3.19	38	8.483	
5	20	12.35	2.06	20	11.35	2.96	38	1.240	20	12.85	1.63	38	.851	20	11.90	1.89	38	.720	20	11.70	1.87	38	1.046	
6	20	13.10	1.55	18	11.28	2.24	36	2.936	20	12.75	1.65	38	.691	20	12.25	3.35	38	1.028	20	13.35	3.39	38	.300	
7	20	13.10	1.74	20	11.90	1.92	38	2.071	20	13.35	1.57	38	.477	20	12.05	1.70	38	1.928	20	12.20	2.82	38	1.214	
8	17	11.35	2.87	16	10.63	3.74	31	.630	18	12.06	1.66	33	.892	20	10.80	3.46	35	.523	20	13.20	1.44	35	2.933	
MULTIPLE TREATMENT																								
1	17	10.76	3.19	12	12.08	2.11	27	1.248	16	11.81	3.12	31	.952	16	11.37	1.36	31	.706						
2	20	12.40	1.54	15	12.40	1.68	33	0.000	19	12.89	.94	37	1.207	19	12.63	1.77	37	.437						
3	20	11.80	2.95	20	11.50	2.61	38	.341	20	11.10	3.09	38	.733	20	11.95	3.15	38	.155						
4	20	12.70	1.75	20	13.00	1.75	38	.543	20	13.05	1.79	38	.625	20	12.40	1.54	38	.576						
5	20	12.35	2.06	18	12.50	2.41	36	.207	20	12.45	2.54	38	.137	15	12.20	1.93	33	.219						
6	20	13.10	1.55	20	12.40	1.85	38	1.298	20	11.05	2.52	38	3.095	20	12.30	2.70	38	1.150						
7	20	13.10	1.74	19	11.47	1.81	37	2.860	20	11.80	1.40	38	2.600	20	12.00	3.04	38	1.402						

REGRESSION FITS OF THE NUMBER, U, OF IMPLANTATIONS ON 1) DOSE, AND 2) LOG DOSE.
(PREDICTED U = A + BX)
CONTROL GROUP EXCLUDED

WEEK	X	N	XBAR	SD X	UBAR	SD U	B	A	TB	DF	VARU,X	CV U	VARB	VARA	VARUBAR
SINGLE TREATMENT															
1	DOSE	33	2.26	2.09	10.76	3.50	.325	10.016	1.102	31	12.1703	.3243	.0868	.8216	.3688
	LOG DOSE	33	-.62	2.38	10.76	3.50	.169	10.862	,646	31	12.4792	.3284	.0687	.4042	.3702
2	DOSE	58	2.51	2.03	11.79	2.32	.032	11.714	,206	56	5.4872	.1986	.0234	.2419	.0946
	LOG DOSE	58	-.31	2.27	11.79	2.32	.046	11.807	,337	56	5.4803	.1985	.0186	.0962	.0945
3	DOSE	57	2.47	2.02	12.77	1.96	-.036	12.880	-,273	55	3.8863	.1544	.0170	.1717	.0682
	LOG DOSE	57	-.34	2.28	12.77	1.96	.014	12.777	,118	55	3.8906	.1544	.0134	.0698	.0683
4	DOSE	60	2.51	2.05	12.75	2.40	.201	12.245	1.324	58	5.7110	.1874	.0231	.2408	.0952
	LOG DOSE	60	-.33	2.29	12.75	2.40	.154	12.800	1.126	58	5.7577	.1882	.0187	.0980	.0960
5	DOSE	60	2.51	2.05	12.03	2.28	.110	11.758	,752	58	5.2580	.1906	.0213	.2217	.0876
	LOG DOSE	60	-.33	2.29	12.03	2.28	.190	12.096	1.476	58	5.1171	.1880	.0166	.0871	.0853
6	DOSE	58	2.60	2.03	12.12	2.56	.188	11.634	1.126	56	6.4985	.2103	.0277	.2989	.1120
	LOG DOSE	58	-.22	2.24	12.12	2.56	.240	12.173	1.613	56	6.3505	.2079	.0221	.1105	.1095
7	DOSE	60	2.51	2.05	12.43	1.83	.029	12.360	,248	58	3.3884	.1480	.0137	.1429	.0565
	LOG DOSE	60	-.33	2.29	12.43	1.83	.136	12.478	1.314	58	3.2939	.1460	.0107	.0560	.0549
8	DOSE	54	2.69	2.04	11.17	3.09	.014	11.129	,066	52	9.7203	.2792	.0441	.4998	.1800
	LOG DOSE	54	-.14	2.23	11.17	3.09	.127	11.184	,661	52	9.6402	.2780	.0367	.1792	.1785
MULTIPLE TREATMENTS															
1	DOSE	44	2.74	1.99	11.73	2.30	-.144	12.122	-,818	42	5.3136	.1966	.0311	.3536	.1208
	LOG DOSE	44	-.04	2.17	11.73	2.30	-.113	11.723	-,694	42	5.3371	.1970	.0264	.1213	.1213
2	DOSE	53	2.70	2.00	12.66	1.48	.040	12.553	,385	51	2.2266	.1179	.0107	.1198	.0420
	LOG DOSE	53	-.09	2.19	12.66	1.48	.068	12.666	,720	51	2.2106	.1174	.0089	.0418	.0417
3	DOSE	60	2.51	2.05	11.52	2.93	.091	11.288	,485	58	8.7058	.2562	.0352	.3671	.1451
	LOG DOSE	60	-.33	2.29	11.52	2.93	.024	11.525	,144	58	8.7380	.2567	.0284	.1407	.1456
4	DOSE	60	2.51	2.05	12.82	1.69	-.121	13.120	-1.126	58	2.8511	.1317	.0115	.1202	.0475
	LOG DOSE	60	-.33	2.29	12.82	1.69	-.071	12.793	-,738	58	2.8864	.1326	.0094	.0491	.0481
5	DOSE	53	2.37	1.97	12.40	2.30	-.059	12.536	,363	51	5.3720	.1870	.0265	.2501	.1014
	LOG DOSE	53	-.39	2.27	12.40	2.30	-.038	12.381	,271	51	5.3781	.1871	.0200	.1045	.1015
6	DOSE	60	2.51	2.05	11.92	2.42	-.019	11.965	-,123	53	5.9740	.2051	.0242	.2519	.0996
	LOG DOSE	60	-.33	2.29	11.92	2.42	-.122	11.877	-,878	58	5.8971	.2038	.0191	.1003	.0983
7	DOSE	59	2.55	2.04	11.76	2.18	.106	11.493	,750	57	4.7718	.1857	.0198	.2100	.0809
	LOG DOSE	59	-.27	2.27	11.76	2.18	.093	11.788	,731	57	4.7741	.1858	.0160	.0821	.0809

REGRESSION FITS OF THE NUMBER, U, OF IMPLANTATIONS ON DOSE,
(PREDICTED U = A + B*X)
CONTROL GROUP INCLUDED

WEEK	X	N	XBAR	SD X	UBAR	SD U	B	A	TB	DF	VARU.X	CV U	VARB	VARA	VARUBAR
SINGLE TREATMENT															
1	DOSE	50	1.51	2.01	10.76	3.37	.228	10.416	.955 48	11.3495	.3131	.0571	.3568	.2270	
2	DOSE	78	1.87	2.06	11.95	2.16	-.046	12.035	-.388 76	4.6985	.1814	.0143	.1101	.0602	
3	DOSE	77	1.83	2.05	12.52	2.27	.086	12.363	.672 75	5.2116	.1823	.0164	.1222	.0677	
4	DOSE	80	1.88	2.08	12.74	2.25	.151	12.453	1.246 78	5.0216	.1759	.0147	.1149	.0629	
5	DOSE	80	1.88	2.08	12.11	2.22	.044	12.029	.367 78	4.9912	.1844	.0146	.1142	.0624	
6	DOSE	78	1.93	2.08	12.37	2.37	.018	12.336	.141 76	5.6856	.1927	.0170	.1362	.0729	
7	DOSE	80	1.88	2.08	12.60	1.82	-.052	12.699	-.531 71	3.3367	.1450	.0098	.0763	.0417	
8	DOSE	71	2.05	2.12	11.21	3.02	-.011	11.234	-.063 69	9.2434	.2712	.0294	.2536	.1302	
MULTIPLE TREATMENTS															
1	DOSE	61	1.97	2.09	11.46	2.59	.029	11.402	.181 59	6.7953	.2275	.0259	.2122	.1114	
2	DOSE	73	1.96	2.09	12.59	1.49	.059	12.474	.698 71	2.2336	.1187	.0071	.0579	.0306	
3	DOSE	80	1.88	2.08	11.59	2.92	.035	11.522	.218 78	8.6279	.2535	.0253	.1974	.1078	
4	DOSE	80	1.88	2.08	12.79	1.70	-.075	12.928	-.811 78	2.8908	.1330	.0085	.0661	.0361	
5	DOSE	73	1.72	1.99	12.38	2.22	-.037	12.446	-.276 71	4.9983	.1805	.0176	.1205	.0685	
6	DOSE	80	1.88	2.08	12.21	2.29	-.144	12.484	-1.168 78	5.2087	.1869	.0153	.1192	.0651	
7	DOSE	79	1.91	2.08	12.10	2.15	-.076	12.245	-.645 77	4.6397	.1780	.0137	.1086	.0587	

T-TEST TEST OF THE (TRANSFORMED) PRE-IMPLANTATION LOSSES IN PREGNANT FEMALES.
 (LOSSES TAKEN AS A SUBSET OF THE SET OF CORPORA LUTEA)

WEEK	CONTROL				71-14 .03 G/KG				71-14 2.5 G/KG				71-14 5.0 G/KG				TEM .2 MG/KG								
	N PRG	MEAN	STD DEV	DF	N PRG	MEAN	STD DEV	DF	N PRG	MEAN	STD DEV	DF	T	N PRG	MEAN	STD DEV	DF	T	N PRG	MEAN	STD DEV	DF	T		
SINGLE TREATMENT																									
1	17	.62	.59	13	.77	.56	.28		.714	10	.77	.76	.25		.598	10	.42	.23	.25	1.008	14	.66	.52	.29	.299
2	20	.43	.27	19	.59	.50	.37		1.223	20	.55	.41	.38		1.085	19	.50	.27	.37	.713	18	.87	.57	.36	3.038
3	20	.58	.48	19	.52	.23	.37		.503	20	.48	.26	.38		.804	18	.56	.39	.36	.105	20	1.01	.59	.38	2.527
4	20	.44	.32	20	.69	.58	.38		1.683	20	.38	.25	.38		.586	20	.37	.19	.38	.784	20	1.52	.57	.38	7.374
5	20	.49	.30	20	.57	.54	.38		.586	20	.38	.20	.38		1.402	20	.46	.32	.38	.331	20	.54	.36	.38	.441
6	20	.50	.26	18	.69	.45	.36		1.695	20	.61	.26	.38		1.437	20	.67	.47	.38	1.492	20	.60	.48	.38	.883
7	20	.44	.25	20	.49	.32	.38		.527	20	.41	.20	.38		.466	20	.53	.32	.38	.955	20	.49	.46	.38	.450
8	17	.69	.53	16	.81	.55	.31		.609	18	.53	.29	.33		1.143	20	.74	.58	.35	.245	20	.52	.29	.35	1.228
MULTIPLE TREATMENT																									
1	17	.62	.59	12	.62	.39	.27		.008	16	.60	.48	.31		.075	16	.52	.25	.31	.613					
2	20	.43	.27	15	.65	.33	.33		2.163	19	.48	.25	.37		.525	19	.53	.24	.37	1.204					
3	20	.58	.48	20	.65	.47	.38		.449	20	.66	.50	.38		.553	20	.69	.47	.38	.714					
4	20	.44	.32	20	.40	.20	.38		.473	20	.41	.20	.38		.318	20	.46	.22	.38	.277					
5	20	.49	.30	18	.59	.43	.36		.839	20	.56	.34	.38		.755	15	.56	.27	.33	.769					
6	20	.50	.26	20	.50	.38	.38		.084	20	.64	.47	.38		1.183	20	.52	.44	.38	.198					
7	20	.44	.25	19	.67	.32	.37		2.578	20	.56	.31	.38		1.424	20	.60	.49	.38	1.283					

T-TEST OF THE (TRANSFORMED) NUMBER OF DEAD IMPLANTS.

WEEK	CONTROL				71-14 .03 G/KG				71-14 2.5 G/KG				71-14 5.0 G/KG				TEM .2 MG/KG						
	N PRG	MEAN	STD	N PRG	MEAN	STD	N DF	T	N PRG	MEAN	STD	N DF	T	N PRG	MEAN	STD	N DF	T	N PRG	MEAN	STD	N DF	T
SINGLE TREATMENT																							
1	17	.48	.22	13	.62	.38	28	1.306	10	.39	.24	25	.997	10	.35	.21	25	1.537	14	1.16	.49	29	5.142
2	20	.48	.27	19	.40	.24	37	.933	20	.40	.26	38	.923	19	.48	.26	37	.002	18	1.53	.48	36	8.356
3	20	.50	.30	19	.65	.36	37	1.451	20	.44	.29	38	.555	18	.47	.25	36	.288	20	1.69	.49	38	9.259
4	20	.45	.22	20	.52	.28	38	.862	20	.43	.26	38	.337	20	.45	.33	38	.001	20	1.50	.53	38	8.217
5	20	.58	.46	20	.51	.34	38	.507	20	.38	.19	38	1.834	20	.39	.21	38	1.694	20	.87	.51	38	1.891
6	20	.42	.27	18	.45	.33	36	.299	20	.49	.32	38	.733	20	.48	.31	38	.643	20	.66	.24	38	2.943
7	20	.51	.27	20	.41	.23	38	1.212	20	.39	.20	38	1.543	20	.50	.30	38	.105	20	.47	.27	38	.447
8	17	.60	.29	16	.54	.37	31	.529	18	.48	.26	33	1.226	20	.56	.36	35	.343	20	.50	.30	35	1.090
MULTIPLE TREATMENT																							
1	17	.48	.22	12	.67	.44	27	1.497	16	.44	.27	31	.458	16	.47	.26	31	.150					
2	20	.48	.27	15	.57	.51	33	.682	19	.47	.36	37	.108	19	.57	.30	37	1.004					
3	20	.51	.31	20	.55	.41	38	.385	20	.55	.24	38	.467	20	.57	.27	38	.704					
4	20	.45	.22	20	.61	.57	38	1.189	20	.55	.29	38	1.178	20	.53	.34	38	.868					
5	20	.58	.46	18	.64	.45	36	.429	20	.46	.33	38	.913	15	.46	.31	33	.875					
6	20	.42	.27	20	.64	.52	38	1.675	20	.52	.28	38	1.082	20	.43	.29	38	.056					
7	20	.51	.27	19	.78	.61	37	1.840	20	.51	.32	38	.011	20	.47	.24	38	.536					

CHI-SQUARE TEST OF THE DEATH INDEX (1 DEGREE OF FREEDOM)

WEEK	VEHICLE CONTROL				71-14 .03 G/KG				71-14 2.5 G/KG				71-14 5.0 G/KG				TEM .2 MG/KG			
	N WDI	N PRG	DEATH INDEX	CHISQ	N WDI	N PRG	DEATH INDEX	CHISQ	N WDI	N PRG	DEATH INDEX	CHISQ	N WDI	N PRG	DEATH INDEX	CHISQ	N WDI	N PRG	DEATH INDEX	CHISQ
SINGLE TREATMENT																				
1	8	17	.47	0.00	7	13	.54	0.00	2	10	.20	.99	1	10	.10	2.40	14	14	1.00	8.03
2	8	20	.40	0.00	5	19	.26	.32	5	20	.25	.46	8	19	.42	.04	17	18	.94	10.18
3	9	20	.45	0.00	12	19	.63	.67	7	20	.35	.10	8	18	.44	.09	20	20	1.00	12.54
4	9	20	.45	0.00	11	20	.55	.10	6	20	.30	.43	6	20	.30	.43	20	20	1.00	12.54
5	9	20	.45	0.00	8	20	.40	0.00	5	20	.45	.99	5	20	.25	.99	14	20	.70	1.64
6	6	20	.30	0.00	6	18	.33	.02	8	20	.40	.11	8	20	.40	.11	16	20	.80	8.18
7	10	20	.50	0.00	6	20	.30	.94	6	20	.30	.94	9	20	.45	0.00	8	20	.40	.10
8	11	17	.65	0.00	6	16	.38	1.47	8	18	.44	.75	10	20	.50	.32	9	20	.45	.75
MULTIPLE TREATMENT																				
1	8	17	.47	0.00	8	12	.67	.44	5	16	.31	.33	6	16	.38	.04				
2	8	20	.40	0.00	6	15	.40	.12	6	19	.32	.05	11	19	.58	.64				
3	9	20	.45	0.00	9	20	.45	.10	12	20	.60	.40	13	20	.65	.91				
4	9	20	.45	0.00	7	20	.35	.10	11	20	.55	.10	9	20	.45	.10				
5	9	20	.45	0.00	11	18	.61	.45	7	20	.35	.10	5	15	.33	.12				
6	6	20	.30	0.00	10	20	.50	.94	9	20	.45	.43	6	20	.30	.12				
7	10	20	.50	0.00	10	19	.53	.02	9	20	.45	0.00	9	20	.45	0.00				

ARMITAGE TEST FOR A LINEAR TREND IN PROPORTIONS FOR THE DEATH INDEX
(1 DEGREE OF FREEDOM) BASED ON THE DOSE LEVELS

	.03 G/KG		2.5 G/KG		5.0 G/KG			
WEEK	N WDI	N PRG	N WDI	N PRG	N WDI	N (C-1)	CHISQ (1)	CHISQ ARMTG

SINGLE TREATMENT

1	7	13	2	10	1	10	5.87	5.39	.48
2	5	19	5	20	8	19	1.63	1.11	.51
3	12	19	7	20	8	18	3.19	1.34	1.85
4	11	20	6	20	6	20	3.53	2.63	.89
5	8	20	5	20	5	20	1.43	1.07	.36
6	6	18	8	20	8	20	.23	.17	.06
7	6	20	6	20	9	20	1.32	.99	.33
8	6	16	8	18	10	20	.56	.56	.00

MULTIPLE TREATMENT

1	8	12	5	16	6	16	3.84	2.03	1.80
2	6	15	6	19	11	19	2.78	1.30	1.48
3	9	20	12	20	13	20	1.76	1.63	.14
4	7	20	11	20	9	20	1.62	.40	1.22
5	11	18	7	20	5	15	3.49	2.73	.77
6	10	20	9	20	6	20	1.78	1.65	.13
7	10	19	9	20	9	20	.30	.22	.08

ARMITAGE TEST FOR A LINEAR TREND IN PROPORTIONS FOR THE DEATH INDEX
 (1 DEGREE OF FREEDOM) BASED ON THE LOGARITHMS OF THE DOSE LEVELS

	.03 G/KG		2.5 G/KG		5.0 G/KG		CHISQ (C-1)	CHISQ (1)	ARMTG CHISQ
WEEK	N WDI	N PRG	N WDI	N PRG	N WDI	N PRG			
SINGLE TREATMENT									
1	7	13	2	10	1	10	5.87	5.82	.04
2	5	19	5	20	8	19	1.63	.47	1.16
3	12	19	7	20	8	18	3.19	2.57	.62
4	11	20	6	20	6	20	3.53	3.47	.05
5	8	20	5	20	5	20	1.43	1.41	.02
6	6	18	8	20	8	20	.23	.23	.00
7	6	20	6	20	9	20	1.32	.48	.84
8	6	16	8	18	10	20	.56	.50	.06
MULTIPLE TREATMENT									
1	8	12	5	16	6	16	3.84	3.45	.38
2	6	15	6	19	11	19	2.78	.28	2.49
3	9	20	12	20	13	20	1.76	1.74	.02
4	7	20	11	20	9	20	1.62	1.13	.59
5	11	18	7	20	5	15	3.49	3.47	.02
6	10	20	9	20	6	20	1.78	1.08	.70
7	10	19	9	20	9	20	.30	.30	.00

ARMITAGE TEST FOR A LINEAR TREND IN PROPORTIONS FOR THE DEATH INDEX
 (2 DEGREES OF FREEDOM) BASED ON THE DOSE LEVELS AND INCLUDING THE CONTROL GROUP

WEEK	CONTROL		.03 G/KG		2.5 G/KG		5.0 G/KG		CHISQ (C-1)	CHISQ (1)	ARMTG CHISQ
	N WDI	N PRG	N WDI	N PRG	N WDI	N PRG	CHISQ (C-1)	CHISQ (1)			
SINGLE TREATMENT											
1	8	17	7	13	2	10	1	10	6.74	6.26	.49
2	8	20	5	19	5	20	8	19	2.10	.23	1.87
3	9	20	12	19	7	20	8	18	3.23	.76	2.45
4	9	20	11	20	6	20	6	20	3.75	2.71	1.04
5	9	20	8	20	5	20	5	20	2.85	2.24	.61
6	6	20	6	18	8	20	8	20	.65	.49	.16
7	10	20	6	20	6	20	9	20	2.69	.04	2.64
8	11	17	6	16	8	18	10	20	2.68	.03	2.65
MULTIPLE TREATMENT											
1	8	17	8	12	5	16	6	16	3.89	1.71	2.18
2	8	20	6	15	6	19	11	19	2.86	1.17	1.69
3	9	20	9	20	12	20	13	20	2.56	2.42	.15
4	9	20	7	20	11	20	9	20	1.62	.29	1.33
5	9	20	11	18	7	20	5	15	3.50	2.13	1.37
6	6	20	10	20	9	20	6	20	2.69	.38	2.30
7	10	20	10	19	9	20	9	20	.34	.25	.09

PROBIT ANALYSIS OF THE PROPORTION OF PREGNANT FEMALES WITH 1 OR MORE DEAD IMPLANTS
PROBIT = A + B(LOG DOSE)

WEEK	B	A	CHISQ	DF
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SINGLE TREATMENT

1	-.560	4.254	.15	1
2	.123	4.518	1.10	1
3	-.275	4.894	.64	1
4	-.309	4.648	.05	1
5	-.200	4.438	.02	1
6	.084	4.700	.00	1
7	.119	4.629	.80	1
8	.128	4.867	.06	1

MULTIPLE TREATMENT

1	-.384	4.819	.40	1
2	.098	4.837	2.47	1
3	.218	5.202	.03	1
4	.170	4.896	.59	1
5	-.333	4.772	.02	1
6	-.172	4.763	.74	1
7	-.091	4.925	.00	1

T-TEST OF THE (TRANSFORMED) NUMBER OF DEAD IMPLANTS.
 (DEAD IMPLANTS TAKEN AS A SUBSET OF THE SET OF IMPLANTS)

WEEK	CONTROL				71-14 .03 G/KG				71-14 2.5 G/KG				71-14 5.0 G/KG				TEM +2 MG/KG						
	N	PRG	MEAN	STD DEV	N	PRG	MEAN	STD DEV	N	PRG	MEAN	STD DEV	N	PRG	MEAN	STD DEV	N	PRG	MEAN	STD DEV			
SINGLE TREATMENT																							
1	17	.53	.25	13	.68	.37	.28	1.271	10	.51	.43	.25	.205	10	.35	.21	.25	1.936	14	1.32	.65	.29	4.925
2	20	.49	.28	19	.43	.25	.37	.688	20	.42	.26	.38	.800	19	.49	.26	.37	.008	18	1.82	.63	.36	8.551
3	20	.57	.32	19	.67	.37	.37	.677	20	.46	.30	.38	.864	18	.49	.24	.36	.641	20	2.13	.45	.38	10.141
4	20	.46	.21	20	.64	.50	.38	1.457	20	.44	.27	.38	.296	20	.46	.33	.38	.048	20	2.45	.43	.38	18.628
5	20	.59	.46	20	.54	.33	.38	.411	20	.38	.20	.38	1.882	20	.41	.24	.38	1.611	20	.92	.56	.38	2.028
6	20	.43	.27	18	.49	.37	.36	.592	20	.51	.32	.38	.801	20	.52	.33	.38	.914	20	.70	.24	.38	3.278
7	20	.52	.27	20	.42	.23	.38	1.183	20	.40	.21	.38	1.582	20	.52	.30	.38	.010	20	.56	.52	.38	.287
8	17	.69	.40	16	.60	.40	.31	.612	18	.50	.27	.33	1.621	20	.62	.36	.35	.566	20	.51	.30	.35	1.475
MULTIPLE TREATMENT																							
1	17	.53	.25	12	.71	.49	.27	1.276	16	.47	.27	.31	.728	16	.48	.27	.31	.538					
2	20	.49	.28	15	.63	.61	.33	.917	19	.42	.36	.37	.107	19	.59	.31	.37	1.070					
3	20	.58	.52	20	.62	.51	.38	.240	20	.60	.28	.38	.138	20	.61	.28	.38	.247					
4	20	.46	.21	20	.62	.58	.38	1.187	20	.55	.29	.38	1.170	20	.54	.34	.38	.896					
5	20	.59	.46	18	.69	.51	.36	.638	20	.53	.56	.38	.361	15	.48	.35	.33	.772					
6	20	.43	.27	20	.67	.53	.38	1.775	20	.55	.30	.38	1.352	20	.45	.29	.38	.183					
7	20	.52	.27	19	.83	.64	.37	1.983	20	.53	.35	.38	.156	20	.50	.25	.38	.219					

CONTROL GROUP ANOVA FOR THE NUMBER OF PREGNANT FEMALES

WEEK	BETWEEN MALES			WITHIN MALES			TOTAL			F
	SUMSQ	DF	MEANSQ	SUMSQ	DF	MEANSQ	SUMSQ	DF		
SINGLE TREATMENT										
1	1.050	9	.117	1.500	10	.150	2.550	19		.778
2	0.000	9	0.000	0.000	10	0.000	0.000	19		I
3	0.000	9	0.000	0.000	10	0.000	0.000	19		I
4	0.000	9	0.000	0.000	10	0.000	0.000	19		I
5	0.000	9	0.000	0.000	10	0.000	0.000	19		I
6	0.000	9	0.000	0.000	10	0.000	0.000	19		I
7	0.000	9	0.000	0.000	10	0.000	0.000	19		I
8	1.050	9	.117	1.500	10	.150	2.550	19		.778
MULTIPLE TREATMENT										
1	1.050	9	.117	1.500	10	.150	2.550	19		.778
2	0.000	9	0.000	0.000	10	0.000	0.000	19		I
3	0.000	9	0.000	0.000	10	0.000	0.000	19		I
4	0.000	9	0.000	0.000	10	0.000	0.000	19		I
5	0.000	9	0.000	0.000	10	0.000	0.000	19		I
6	0.000	9	0.000	0.000	10	0.000	0.000	19		I
7	0.000	9	0.000	0.000	10	0.000	0.000	19		I

CONTROL GROUP ANOVA FOR THE NUMBER OF IMPLANTATIONS PER PREGNANT FEMALE

WEEK	BETWEEN MALES			WITHIN MALES			TOTAL			F
	SUMSQ	DF	MEANSQ	SUMSQ	DF	MEANSQ	SUMSQ	DF		
SINGLE TREATMENT										
1	96.942	9	10.771	67.500	7	9.643	164.442	16	1.117	
2	19.800	9	2.200	25.000	10	2.500	44.800	19	.880	
3	68.200	9	7.578	97.000	10	9.700	165.200	19	.781	
4	31.200	9	3.467	27.000	10	2.700	58.200	19	1.284	
5	12.050	9	1.339	68.500	10	6.850	80.550	19	.195	
6	34.800	9	3.867	11.000	10	1.100	45.800	19	3.515	
7	31.800	9	3.533	26.000	10	2.600	57.800	19	1.359	
8	51.382	9	5.709	80.500	7	11.500	131.882	16	.496	
MULTIPLE TREATMENT										
1	96.942	9	10.771	67.500	7	9.643	164.442	16	1.117	
2	19.800	9	2.200	25.000	10	2.500	44.800	19	.880	
3	68.200	9	7.578	97.000	10	9.700	165.200	19	.781	
4	31.200	9	3.467	27.000	10	2.700	58.200	19	1.284	
5	12.050	9	1.339	68.500	10	6.850	80.550	19	.195	
6	34.800	9	3.867	11.000	10	1.100	45.800	19	3.515	
7	31.800	9	3.533	26.000	10	2.600	57.800	19	1.359	

CONTROL GROUP ANOVA FOR THE PRE-IMPLANTATION LOSS PER PREGNANT FEMALE

WEEK	BETWEEN MALES			WITHIN MALES			TOTAL			F
	SUMSQ	DF	MEANSQ	SUMSQ	DF	MEANSQ	SUMSQ	DF		
SINGLE TREATMENT										
1	55.062	9	6.118	83.500	7	11.929	138.562	16	.513	
2	8.450	9	.939	12.500	10	1.250	20.950	19	.751	
3	38.200	9	4.244	52.000	10	5.200	90.200	19	.816	
4	34.050	9	3.783	14.500	10	1.450	48.550	19	2.609	
5	6.200	9	.689	16.000	10	1.600	22.200	19	.431	
6	6.250	9	.694	11.500	10	1.150	17.750	19	.604	
7	6.450	9	.717	10.500	10	1.050	16.950	19	.683	
8	60.782	9	6.754	62.500	7	8.929	123.282	16	.756	
MULTIPLE TREATMENT										
1	55.062	9	6.118	83.500	7	11.929	138.562	16	.513	
2	8.450	9	.939	12.500	10	1.250	20.950	19	.751	
3	38.200	9	4.244	52.000	10	5.200	90.200	19	.816	
4	34.050	9	3.783	14.500	10	1.450	48.550	19	2.609	
5	6.200	9	.689	16.000	10	1.600	22.200	19	.431	
6	6.250	9	.694	11.500	10	1.150	17.750	19	.604	
7	6.450	9	.717	10.500	10	1.050	16.950	19	.683	

CONTROL GROUP ANOVA FOR THE NUMBER OF DEAD IMPLANTS PER PREGNANT FEMALE

WEEK	BETWEEN MALES			WITHIN MALES			TOTAL			F
	SUMSQ	DF	MEANSQ	SUMSQ	DF	MEANSQ	SUMSQ	DF		
SINGLE TREATMENT										
1	3.743	9	.416	2.500	7	.357	6.243	16		1.164
2	3.050	9	.339	11.500	10	1.150	14.550	19		.295
3	5.800	9	.644	7.000	10	.700	12.800	19		.921
4	4.000	9	.444	3.000	10	.300	7.000	19		1.481
5	41.250	9	4.583	64.500	10	6.450	105.750	19		.711
6	11.450	9	1.272	9.500	10	.950	20.950	19		1.339
7	4.200	9	.467	15.000	10	1.500	19.200	19		.311
8	8.642	9	.960	12.500	7	1.786	21.142	16		.538
MULTIPLE TREATMENT										
1	3.743	9	.416	2.500	7	.357	6.243	16		1.164
2	3.050	9	.339	11.500	10	1.150	14.550	19		.295
3	8.050	9	.894	6.500	10	.650	14.550	19		1.376
4	4.000	9	.444	3.000	10	.300	7.000	19		1.481
5	41.250	9	4.583	64.500	10	6.450	105.750	19		.711
6	11.450	9	1.272	9.500	10	.950	20.950	19		1.339
7	4.200	9	.467	15.000	10	1.500	19.200	19		.311

CONTROL GROUP ANOVA FOR THE RATIO OF DEAD IMPLANTS TO TOTAL IMPLANTS PER PREGNANT FEMALE

WEEK	BETWEEN MALES			WITHIN MALES			TOTAL			F
	SUMSQ	DF	MEANSQ	SUMSQ	DF	MEANSQ	SUMSQ	DF		
SINGLE TREATMENT										
1	.029	9	.003	.028	7	.004	.057	16	.819	
2	.022	9	.002	.078	10	.008	.099	19	.311	
3	.469	9	.052	.465	10	.046	.934	19	1.122	
4	.025	9	.003	.019	10	.002	.044	19	1.479	
5	.241	9	.027	.369	10	.037	.610	19	.725	
6	.056	9	.006	.050	10	.005	.106	19	1.233	
7	.021	9	.002	.079	10	.008	.100	19	.290	
8	.150	9	.017	.213	7	.030	.363	16	.547	
MULTIPLE TREATMENT										
1	.029	9	.003	.028	7	.004	.057	16	.819	
2	.022	9	.002	.078	10	.008	.099	19	.311	
3	.541	9	.060	.397	10	.040	.937	19	1.515	
4	.025	9	.003	.019	10	.002	.044	19	1.479	
5	.241	9	.027	.369	10	.037	.610	19	.725	
6	.056	9	.006	.050	10	.005	.106	19	1.233	
7	.021	9	.002	.079	10	.008	.100	19	.290	

T-TEST OF THE NUMBER OF CORPORA LUTEA IN PREGNANT FEMALES.

WEEK	CONTROL				71-14 .03 G/KG				71-14 2.5 G/KG				71-14 5.0 G/KG				TEM .2 MG/KG								
	N	PRG	MEAN	STD DEV	N	PRG	MEAN	STD DEV	N	PRG	MEAN	STD DEV	N	PRG	MEAN	STD DEV	N	PRG	MEAN	STD DEV	DF	T	DF	T	DF
SINGLE TREATMENT																									
1	17	12.18	1.67	13	12.23	2.13	.28	.078	10	11.60	2.17	.25	.776	10	12.50	1.65	.25	.489	14	12.71	1.82	.29	.859		
2	20	12.95	1.43	19	12.89	1.63	.37	.113	20	12.85	2.16	.33	.173	19	12.53	1.22	.37	.993	18	13.00	2.50	.36	.077		
3	20	13.10	2.86	19	13.37	1.89	.37	.343	20	13.80	1.70	.38	.939	18	13.72	1.74	.36	.798	20	12.90	1.33	.38	.283		
4	20	13.35	1.31	20	14.35	1.50	.38	2.249	20	13.05	1.47	.38	.682	20	13.60	1.43	.38	.577	20	11.25	1.89	.38	.088		
5	20	13.05	1.70	20	12.65	1.14	.38	.875	20	13.15	1.53	.38	.195	20	12.45	1.15	.38	1.308	20	12.65	1.42	.38	.806		
6	20	13.85	1.50	18	13.11	2.59	.36	1.091	20	13.95	2.01	.38	.178	20	13.90	2.00	.38	.090	20	14.85	1.76	.38	1.239		
7	20	13.65	1.69	20	12.60	1.43	.38	2.118	20	13.75	1.52	.38	.197	20	12.90	1.17	.38	1.631	20	13.05	1.39	.38	1.223		
8	17	13.12	1.22	16	12.75	2.18	.31	.604	18	12.89	1.64	.33	.466	20	12.80	1.67	.35	.649	20	14.10	1.29	.35	2.363		
MULTIPLE TREATMENT																									
1	17	12.18	1.67	12	13.50	2.07	.27	1.907	16	13.13	1.89	.31	1.530	16	12.06	1.44	.31	.210							
2	20	12.95	1.43	15	13.87	1.73	.33	1.716	19	13.58	1.22	.37	1.475	19	13.42	1.68	.37	.945							
3	20	13.10	2.86	20	13.20	2.65	.38	.115	20	12.55	1.85	.38	.722	20	13.60	1.54	.38	.688							
4	20	13.35	1.31	20	13.40	2.01	.38	.093	20	13.45	1.79	.38	.202	20	12.90	1.29	.38	1.094							
5	20	13.05	1.70	18	13.83	1.29	.36	1.584	20	13.35	1.84	.38	.535	15	13.13	2.10	.33	.130							
6	20	13.85	1.50	20	13.35	1.04	.38	1.227	20	12.45	1.50	.38	2.951	20	13.30	1.84	.38	1.038							
7	20	13.65	1.69	19	12.84	1.42	.37	1.607	20	12.80	1.44	.38	1.711	20	13.15	1.98	.38	.858							